

CATALOGUE No. 4

# JAIL CELLS AND PRISON WORK



MANUFACTURED BY

**CANADA WIRE AND IRON GOODS COMPANY**

HAMILTON, CANADA





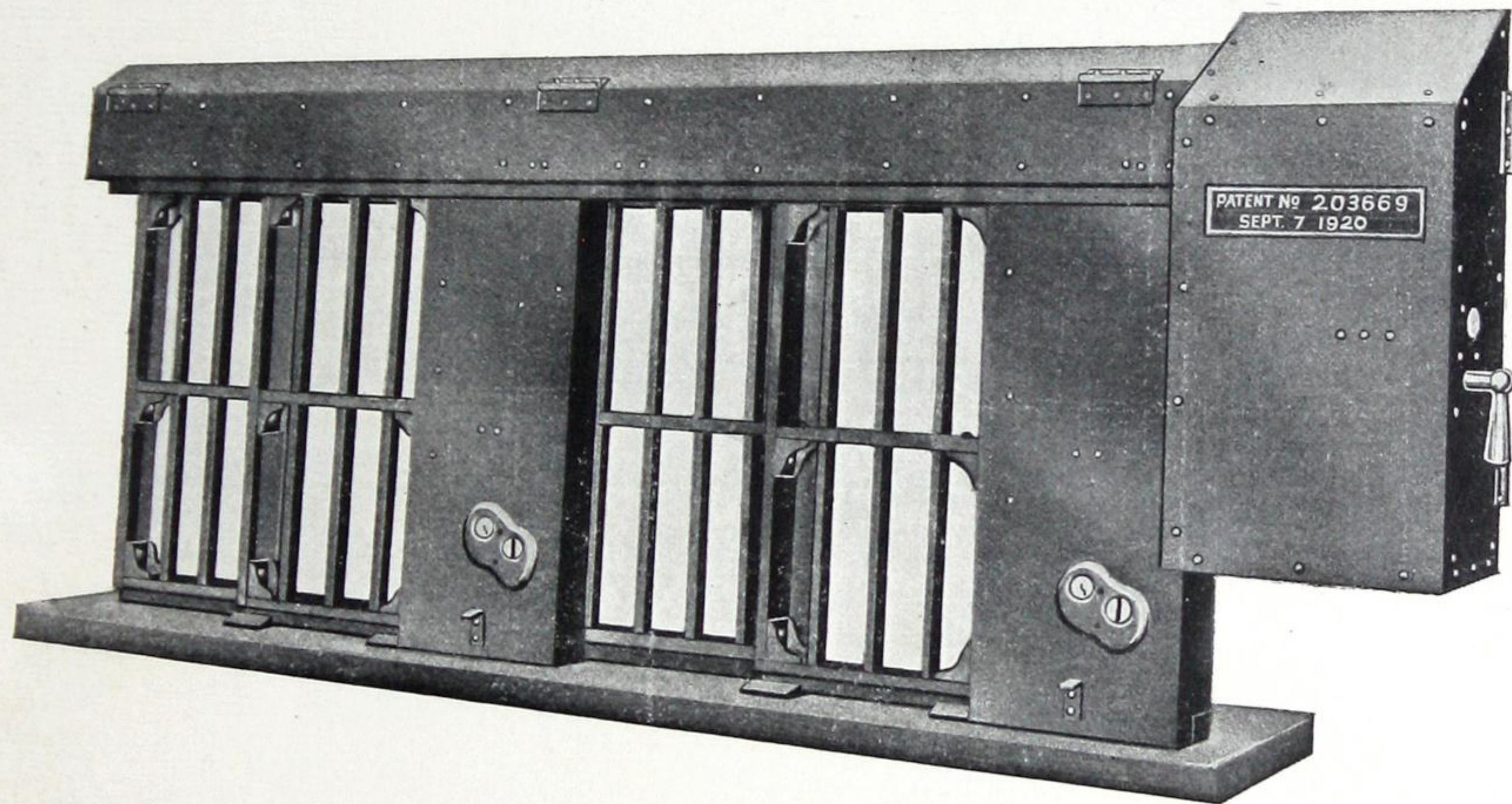


# CANADA WIRE & IRON GOODS CO.

HAMILTON - CANADA

Manufacturers of

JAIL CELLS AND PRISON WORK

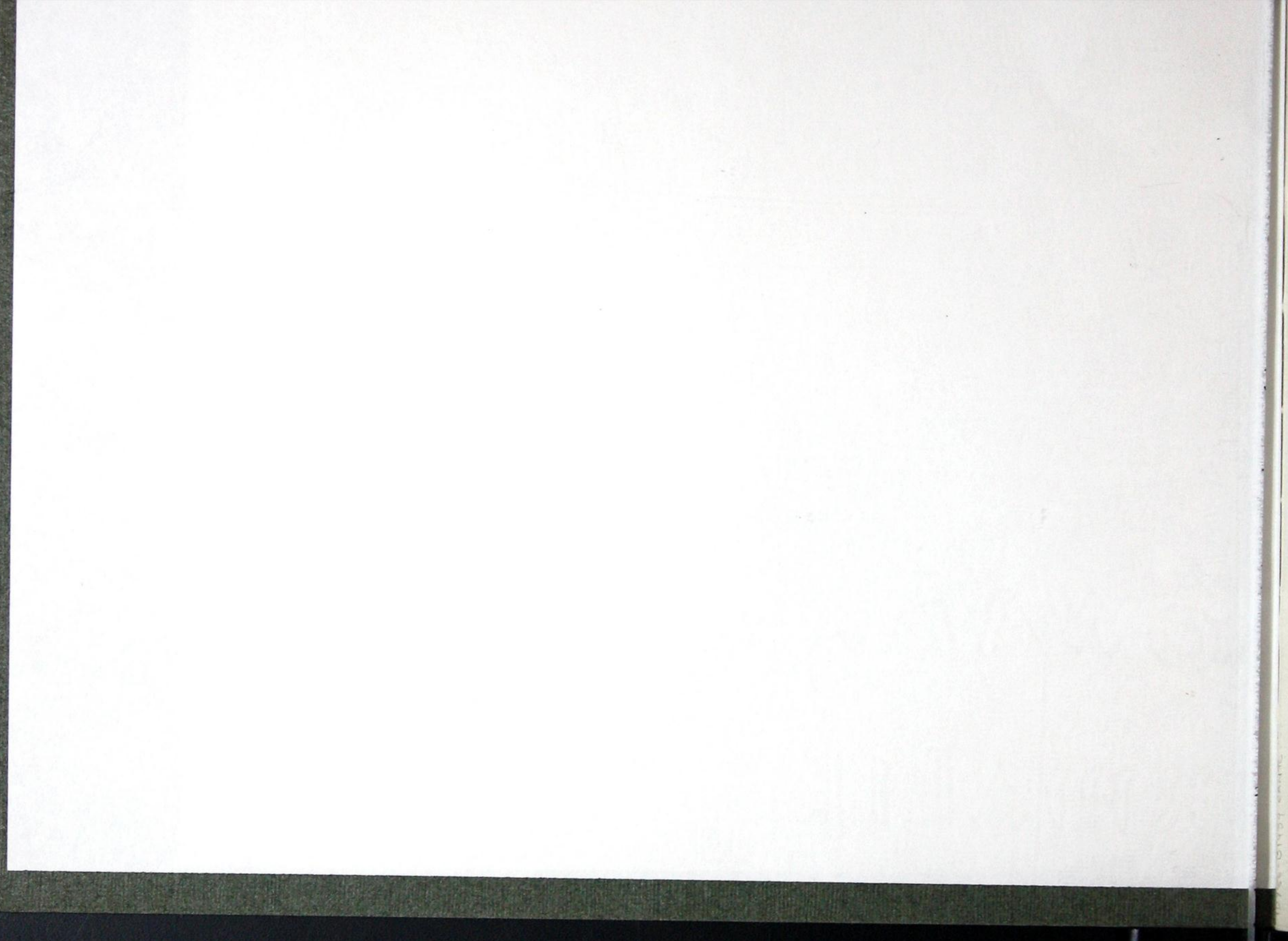


Model showing general outline of our Semi Control Locking Device  
All working parts are full size.

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Patronize "MADE-IN-CANADA"

# CANADA WIRE & IRON GOODS COMPANY

HAMILTON



CANADA



## JAIL CATALOGUE No. 4

Jail Cells, Window Guards, Plate and Lattice Doors and Miscellaneous Jail Work

*We specialize in all kinds of Steel Cells, Steel Work, Etc., for Prisons, Jails and City Lockups.  
Constructed according to Architects' plans and specifications or under our own supervision. Correspondence Solicited.*

**To Prospective Patrons :** With pleasure, we hand you herewith a copy of our Special Catalogue No. 4, illustrating some of our standard Jail Cells and Prison Work. We specialize in this class of construction and are well equipped to handle any special business intrusted to us. If you contemplate installing anything in this line, we shall be pleased to quote on your requirements on receipt of particulars setting forth the number of cells, style, size and arrangement. Or if you will state the size of the space the cell will occupy, the number of prisoners you propose to accommodate, we shall be pleased to recommend a construction which will be most suitable for your needs.

We solicit your enquiries,

CANADA WIRE & IRON GOODS COMPANY



# Standard Specifications for Lattice Flat Steel Bar Cells.

## DIMENSIONS OF CELL.

There will be one cell, or two or more joined together, each cell to be 54 or 60 inches wide, 84 inches deep from front to rear, and 84 inches high, set in either a block or a row.

## CONSTRUCTION OF CELL.

The top, front and back of cells, unless otherwise noted, including the cell doors, to be of lattice work: the partitions between cells and sides of  $\frac{1}{8}$  inch Bessemer solid prison steel plate. (The top of cells or any other part can be of plate instead of lattice work.)

The cells to be fitted with plate bottoms, or without bottoms (to fasten to cement, stone or wood floor.)

## PLATE WORK.

The Bessemer prison steel plate will be  $\frac{1}{8}$  inch thick. All edges of each plate to be planed true and square: all plates will be perfectly straight and free from twists or buckles. All joints between plates will be butted close and will be battened by 3 inch batten strips: all corners will be thoroughly and securely put together with  $1\frac{3}{4}$  inch x  $\frac{3}{16}$  inch steel angles. All steel batten strips and corner angles will be securely rivetted to the plate work with round head steel rivets, spaced and staggered to give the greatest strength.

## LATTICE WORK.

The lattice work will be made of  $1\frac{3}{4}$  inch by  $\frac{3}{16}$  inch Bessemer prison steel flat bars crossing at right angles and spaced so as to form openings 4 inches x 4 inches. Around each lattice section will be a steel angle frame as described above. Each vertical and horizontal bar will be securely rivetted at each intersection: also each end of said bars will be securely rivetted to the steel angles forming the frame, with round head rivets.

## CELL DOORS.

Each cell will be provided with a Bessemer prison steel lattice door, the opening to be about 6 feet 8 inches x 26 inches for a cell 7 feet high, constructed in all respects as specified under "Lattice Work" to be hung on heavy forged steel hinges, securely rivetted to the frame around the door and to the frame of the lattice forming the door opening. Each cell door will be securely locked with our patented Jump Bar and locking device arrangement as described below.

## JUMP LOCK.

Our patented automatic jump lock arrangement, which will be secured to the lock side of the door and will consist of a flat steel bar extending the full height of the door. Secured to the door arranged so that when the door is pushed shut, the lock bar, upon striking the catch lugs which project from the face of the front of the cell, will slide over said lugs and drop down into the

slots cut out to receive the lock bar, effectually holding the door at top, centre, and bottom, and is then finally locked with Deadlock or Springlock. The Springlock locks the door automatically and can only be released by the proper key. The Deadlock must be locked and released by the key. While the Springlock is a first-class device, we recommend the Deadlock, for the reason it is easier set up by the inexperienced and unless otherwise instructed we will fit our lattice steel cell doors with our Prison Deadlock. Secured to the lock bar will be a swinging hasp, which drops over a lug permitting of the use of a Yale Prison padlock for additional security.

## PROTECTION PLATE.

Around the lock will be securely rivetted a steel armor plate about 24 inches by 24 inches, making it impossible for the prisoners to reach the lock or tamper with it.

## FOOD OPENING.

Each cell door will have a food opening about 4 inches by  $9\frac{1}{2}$  inches.

## STEEL BUNKS.

In each cell there will be one or two bunks, 2 feet wide by 6 feet long. When two bunks are desired one is hung above the other. The bunks will be made with steel angle frames to which will be secured a lattice bottom made of steel bands crossing each other at right angles and interwoven. The bunks will be hung on hinges and so arranged as to turn up against the side of the cell when not in use.

## PAINTING.

The cell work and fixtures will be painted one coat of the best metallic paint before shipping.

## WORKMANSHIP AND MATERIAL.

All material will be new and of the best quality used for such purposes, and the workmanship throughout will be the best. These specifications will be considered as a part of the contract and will be binding on the manufacturer to make the cell work as specified.

## CONSTRUCTION.

Cells will be rivetted up in full sections, which will go through any ordinary sized door. Before shipping each cell will be set up complete in the factory to insure the perfect fitting of all parts. While in place on the floor all sections will be carefully marked to show just how they are put together. A Blue Print of cells showing how sections are marked will be sent with each shipment, also the necessary rivets, so that an ordinary mechanic can erect the cells. **NO SPECIAL TOOLS** will be required, as all fitting will be done at factory.



## PLAN NO. 1

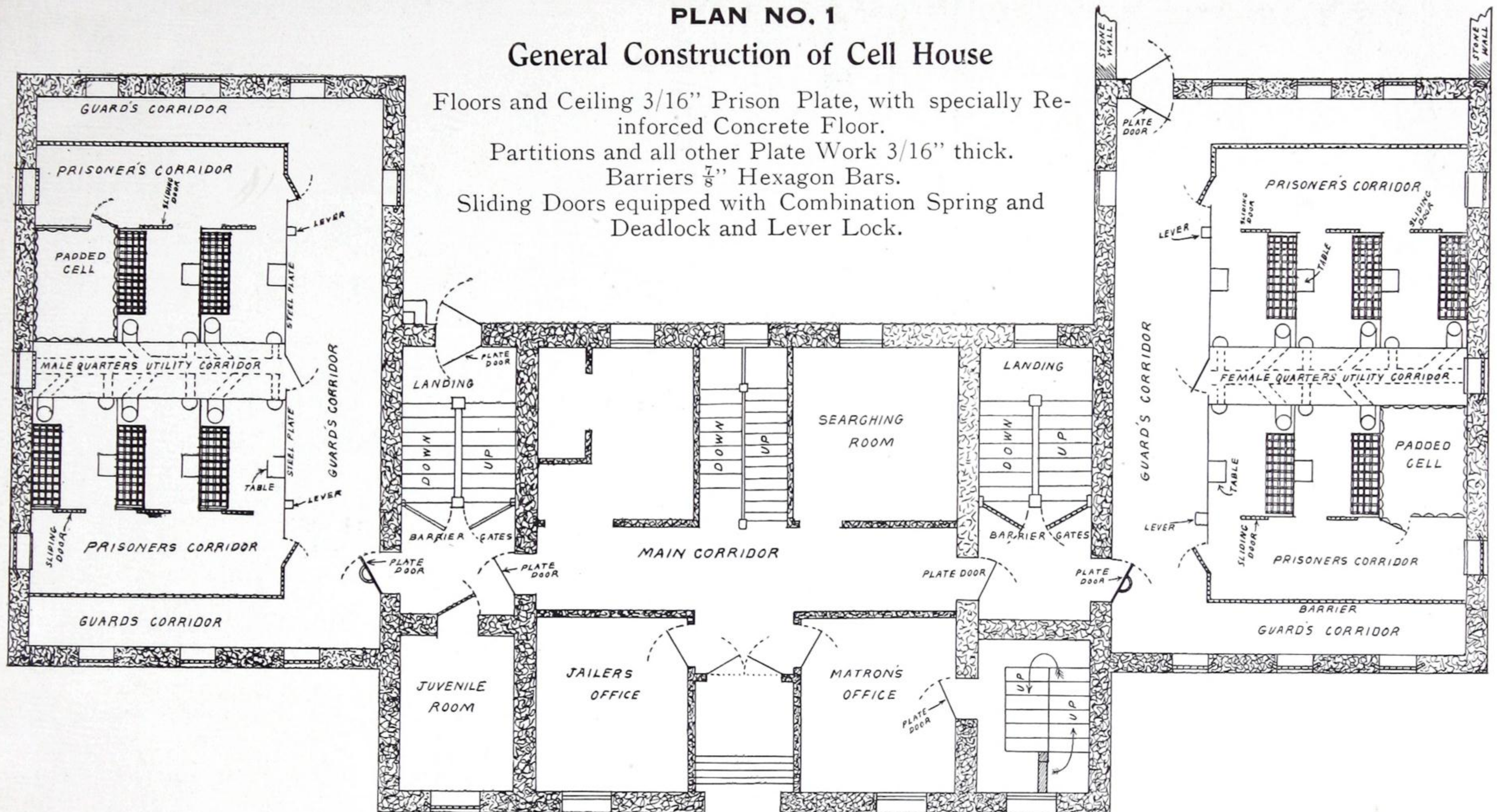
### General Construction of Cell House

Floors and Ceiling 3/16" Prison Plate, with specially Reinforced Concrete Floor.

Partitions and all other Plate Work 3/16" thick.

Barriers 7/8" Hexagon Bars.

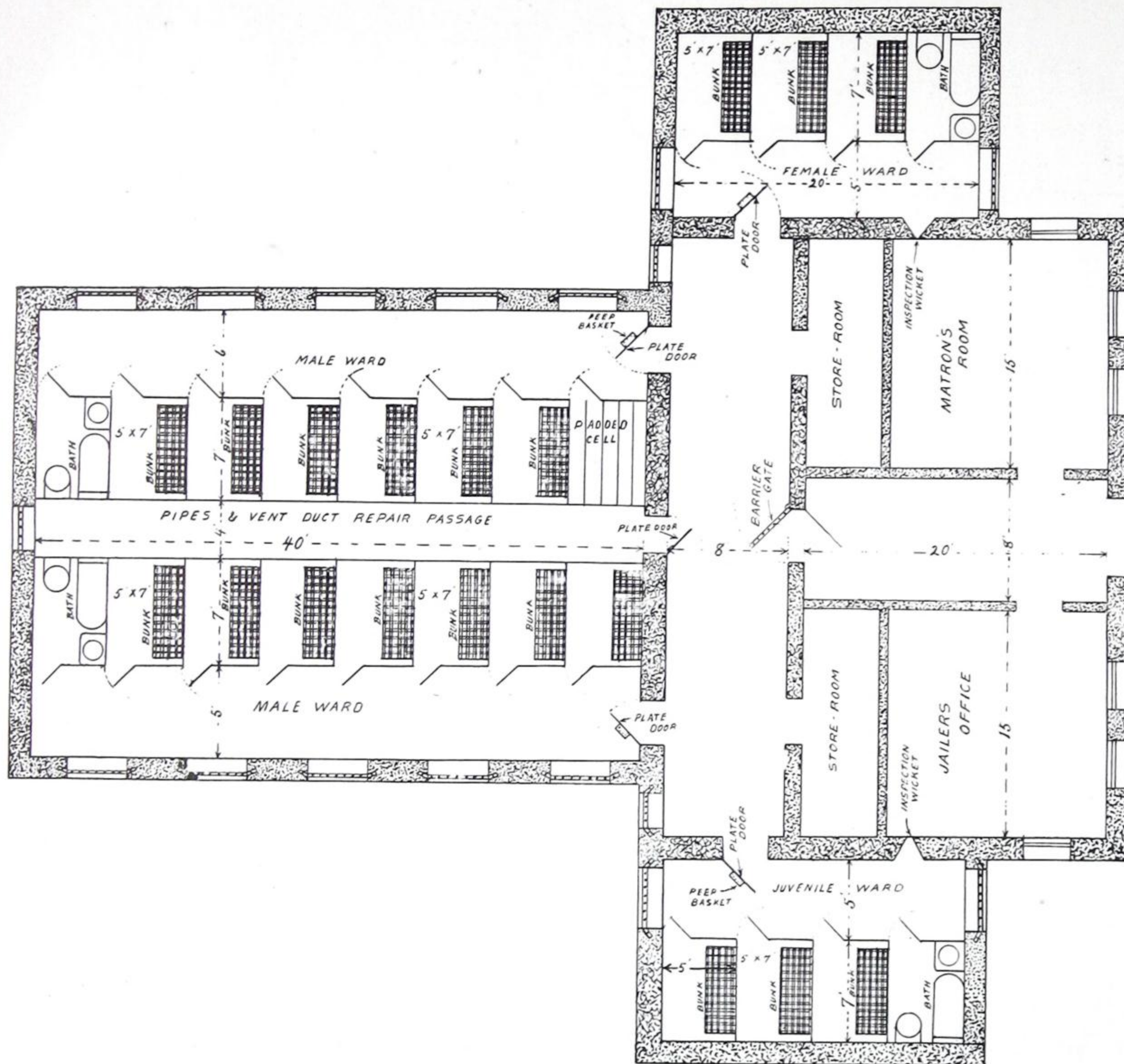
Sliding Doors equipped with Combination Spring and Deadlock and Lever Lock.



### LOWER FLOOR PLAN OF COUNTY OR CITY JAIL.

Cell House—Fireproof Construction ; for Elevation of these Cells see page 15.





PLAN No. 2

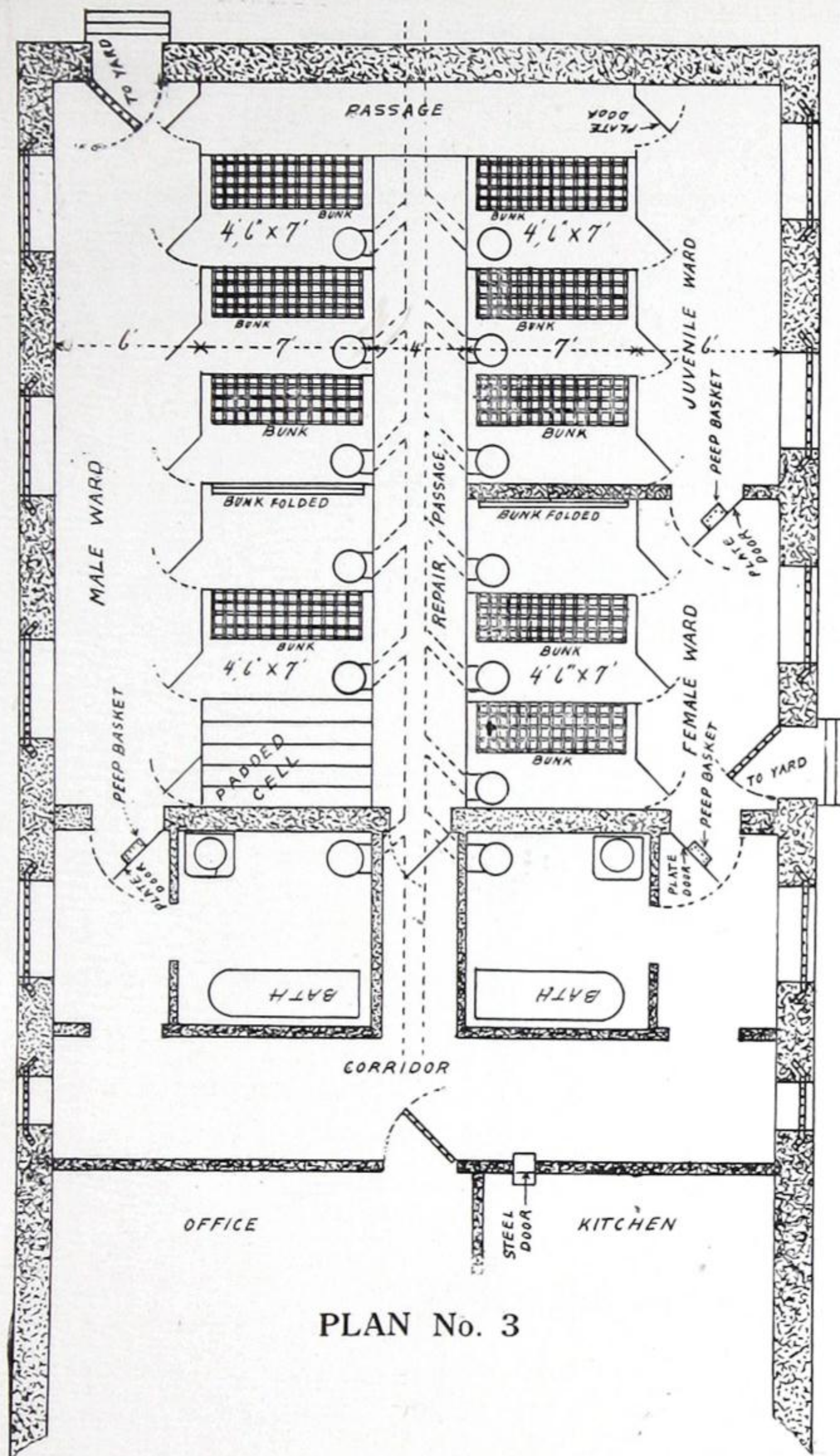
# **FLOOR PLAN SUITABLE FOR COUNTY JAIL OR CITY POLICE STATION**

Lattice Steel Fronts, or if desired,  
Fronts may be made of Hexagon  
or Round Bar Construction.



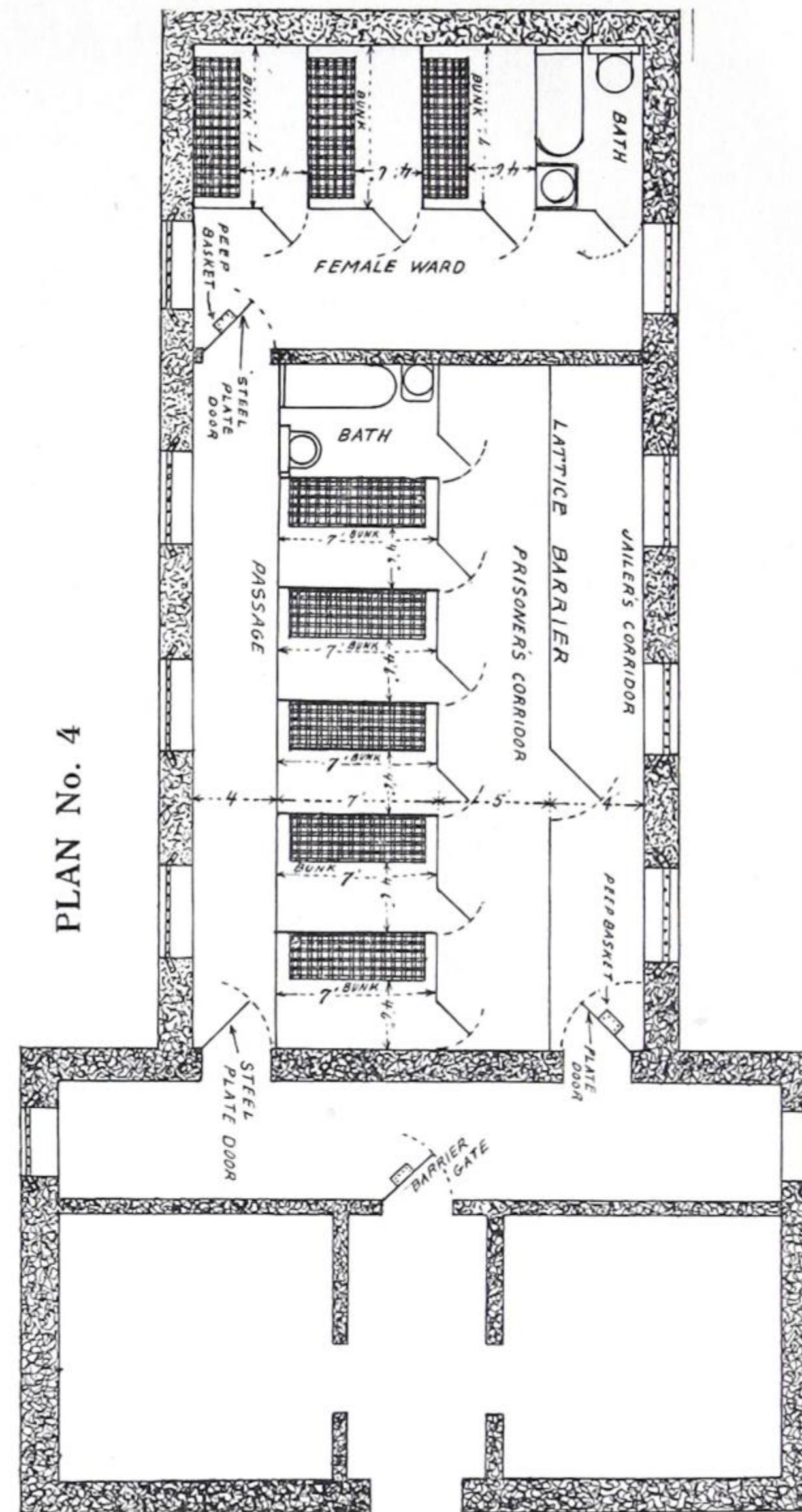
For General Construction  
refer to our  
Standard Specifications for Lattice  
Jail Cells, on page 2.





PLAN No. 3

THESE Floor Plans are suitable for a County or Town Jail. The Cell House may be extended to suit local conditions. Refer to standard specifications for Lattice Jail Cells. (See page 2).

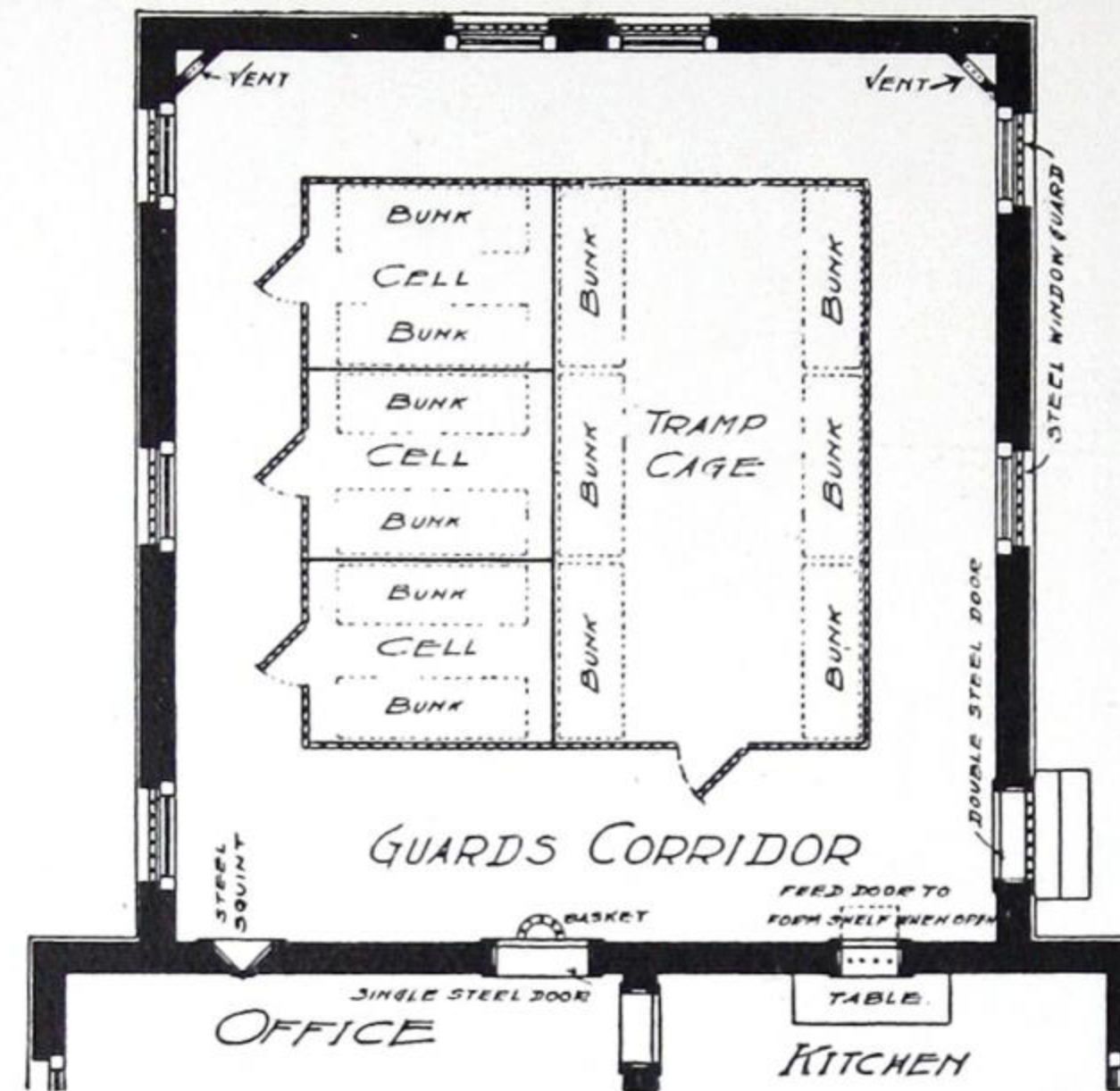


PLAN No. 4

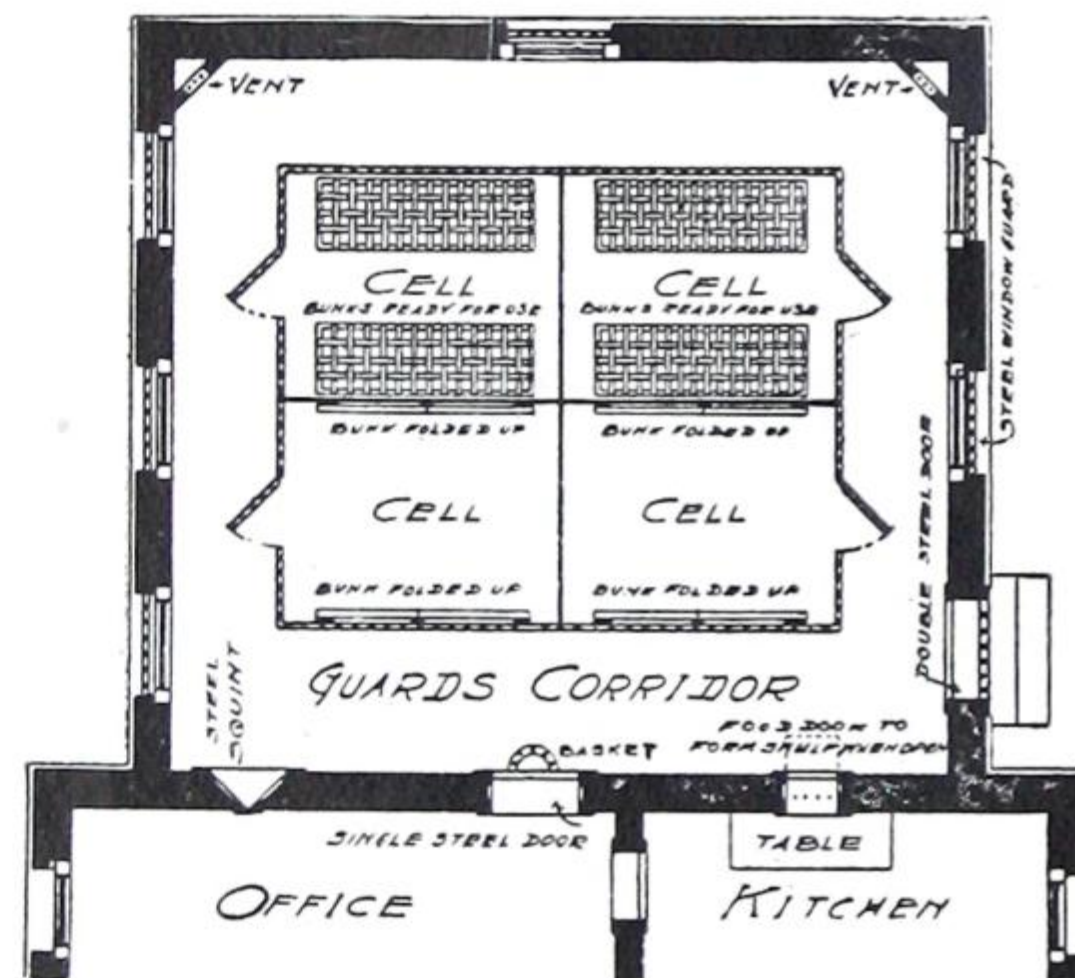


# FLOOR PLAN

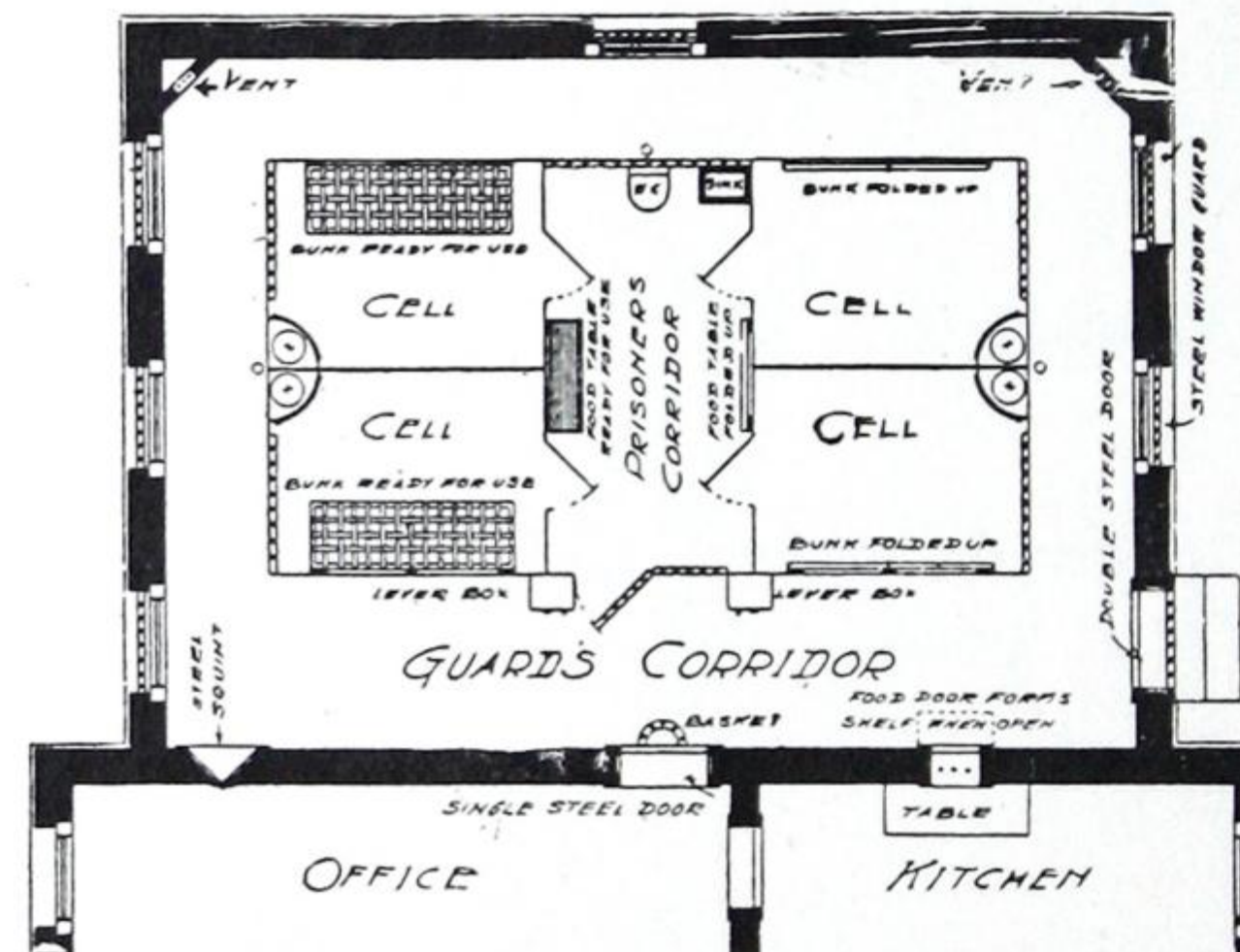
# SUGGESTIONS



PLAN No. 5



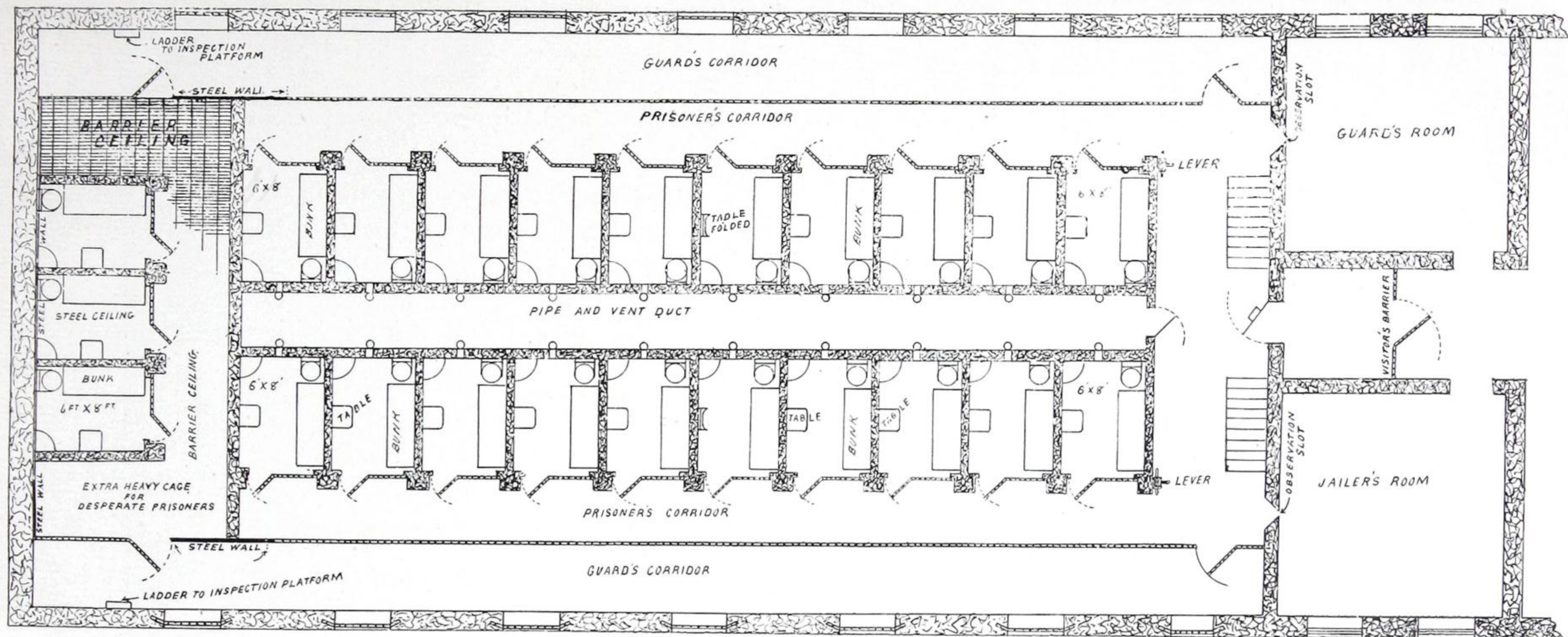
PLAN No. 6



PLAN No. 7

(SEE STANDARD SPECIFICATIONS PAGE 2)



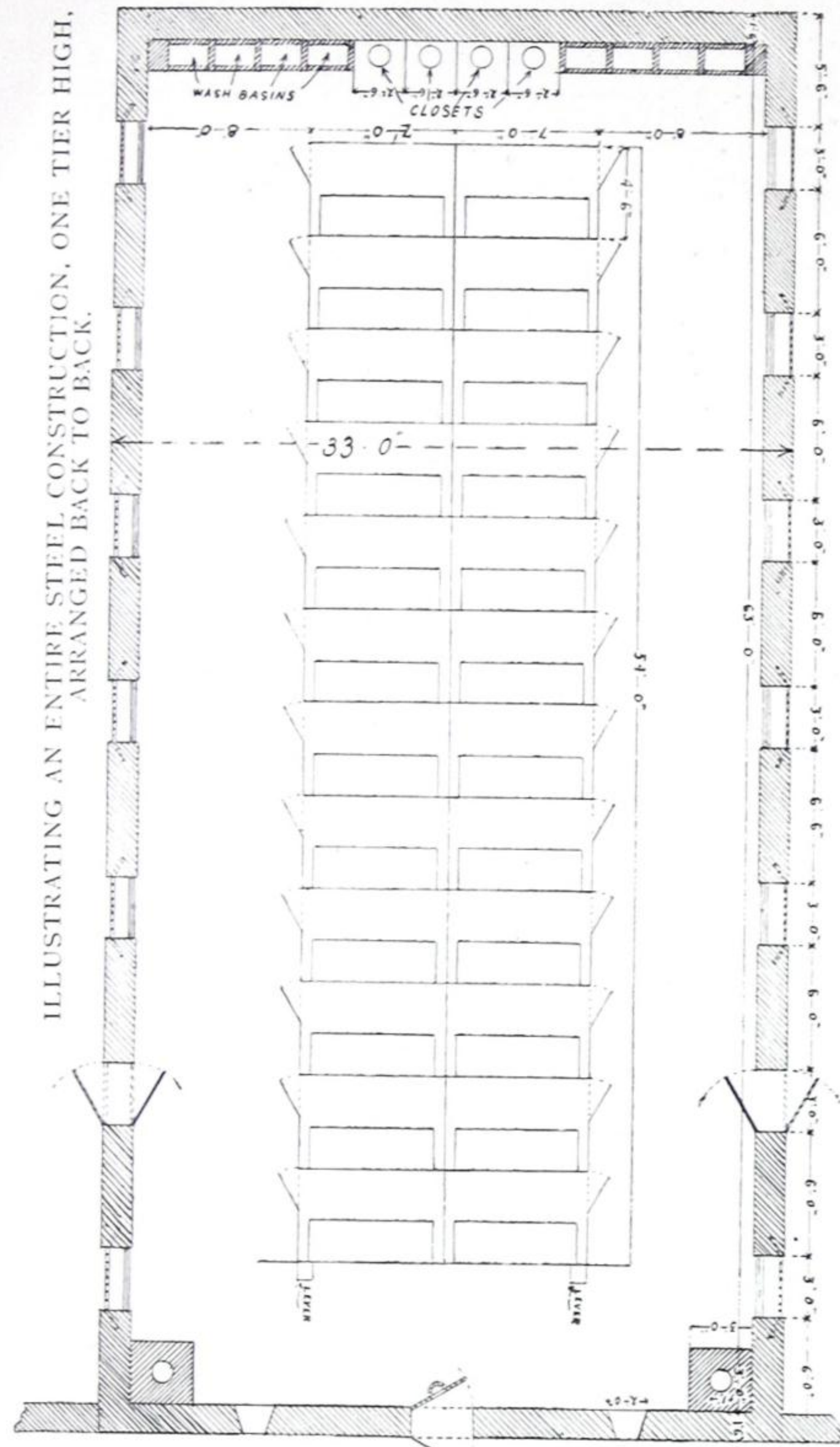


PLAN No. 8

**I**LLUSTRATING the lower floor plan of a concrete or stone cell house with a specially constructed heavy steel cage for desperate prisoners, good ventilation and drainage is provided. Each cell may be equipped with all the modern requirements, such as table, electric lights, folding bunk, wash basin, and closet. All galleries are protected with a light, strong barrier.

Inspection platforms are provided for the supervision of prisoners while in the corridors. The levers are operated by a hand wheel and all cells may be opened or locked by one turn of wheel. Any individual cell may be opened without disturbing the other cells, simply by drawing the indicating finger along the dial to cell number of cell to be opened. Note, this lever as described can be applied to any construction of cell as illustrated herein. Provision is made in other tiers for punishment cells, death cells, padded cells, and bath room cells. Note, any number of cells may be erected in a tier.





FLOOR PLAN No. 9



IN the foregoing pages we have endeavored to set forth what we considered a fairly complete line of floor plans illustrating Cell House Layouts, also Administration Quarters of up-to-date Prisons and Police Stations suitable for City, Town, or Village requirements.

The question of Jail Cells is a very important one to every community, as it involves so many different phases of the question. The present standard of civilization demands better conditions for our criminal classes, realizing that it is of vital importance to educate the unfortunate to better conditions, both from the standpoint of cleanliness and sanitation.

The old-fashioned dismal Cell and wooden pens with a plank bed must disappear entirely, being harborers of vermin and unfit for human beings' use, say nothing about the danger from fire. In many progressive Municipalities these conditions have been remedied.

For Town and Village use, the ideal Cell is a construction of steel throughout, such a Cell can be placed in a section of any Municipal Building.



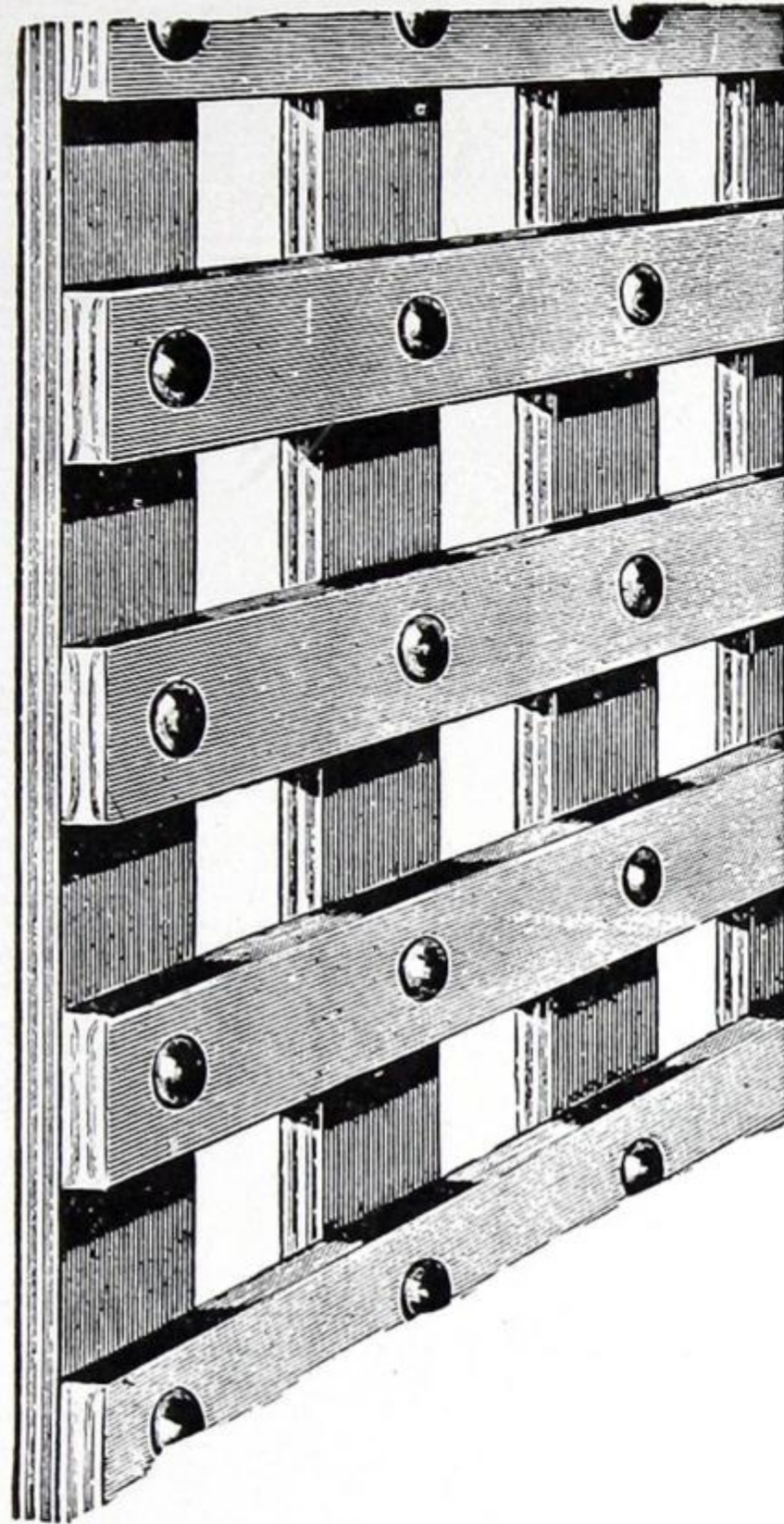


PLATE A-1

The above illustration shows the construction of lattice work used in our lattice cells. Its great strength will be readily appreciated; each bar is securely rivetted at every intersection, making it extremely difficult for a prisoner to escape, even when provided with tools, there being so many steel bars to cut.

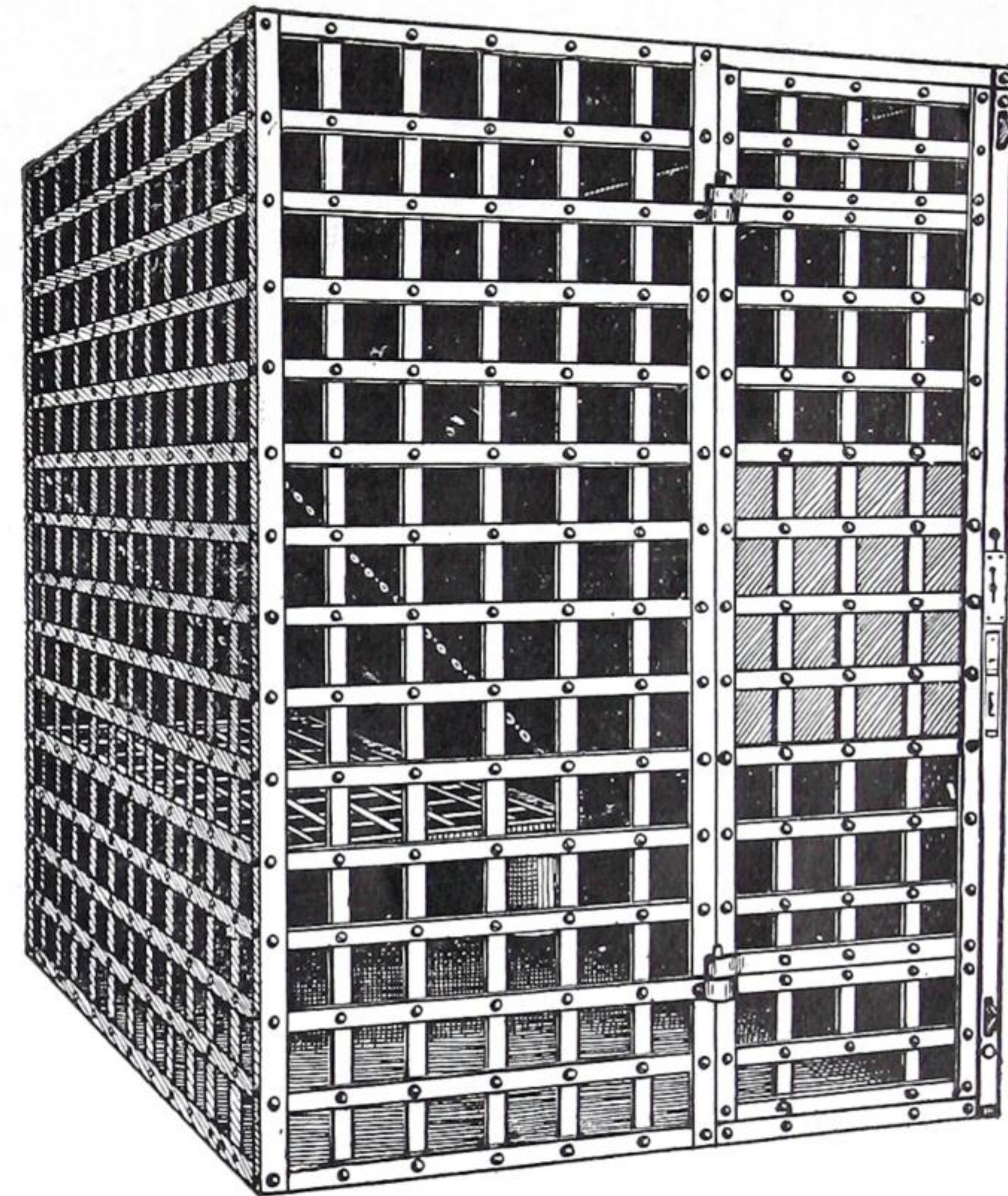


PLATE A-3

Dimensions 5' wide x 7' deep x 7' high.

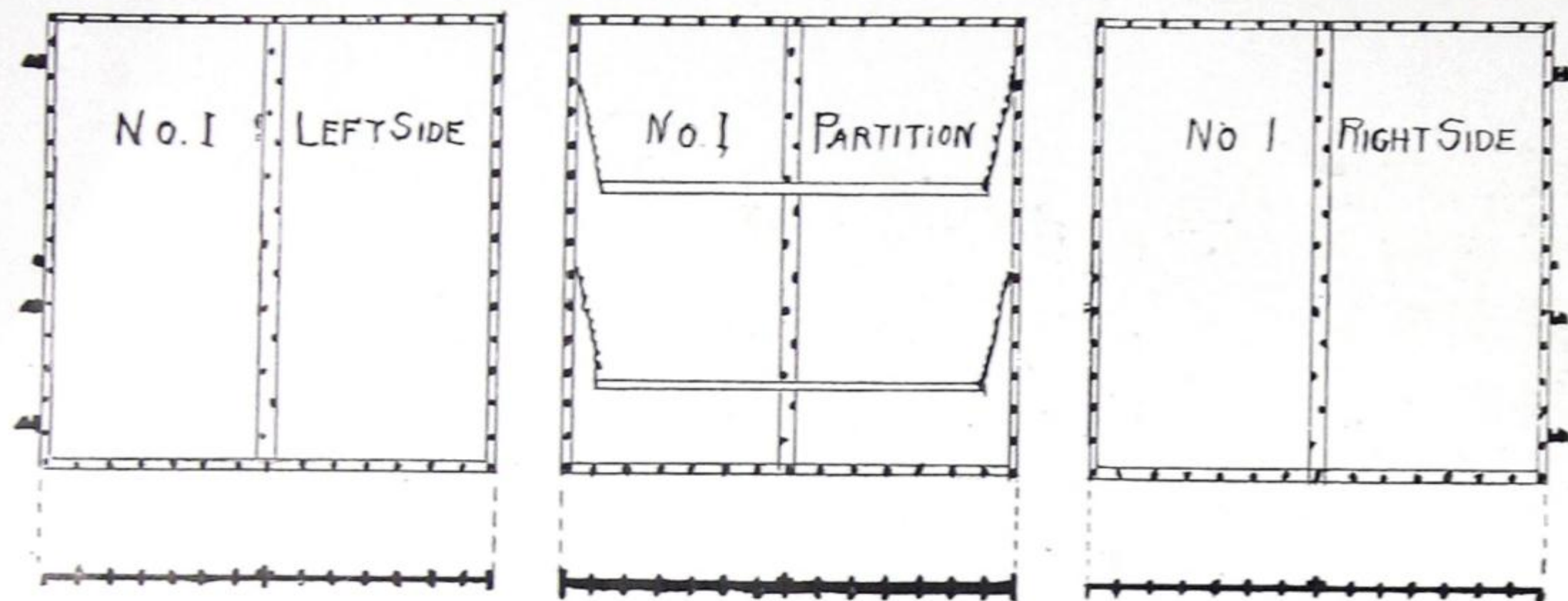
Illustrating our Single Lattice Steel Cell, door fitted with our Patent Automatic Locking Device, securing it all points.

The opening in bottom of door is for the purpose of passing food or water to prisoners, without opening cell door.

There are many places where it is necessary to have a good strong place of confinement at a moderate cost and this lattice work construction amply fills these requirements.

(REFER TO GENERAL SPECIFICATIONS ON PAGE 2)





## Sections of Double Cell

(SEE PLATE A-5)

Illustrating the various sections,  
and our method of marking same  
before shipping.

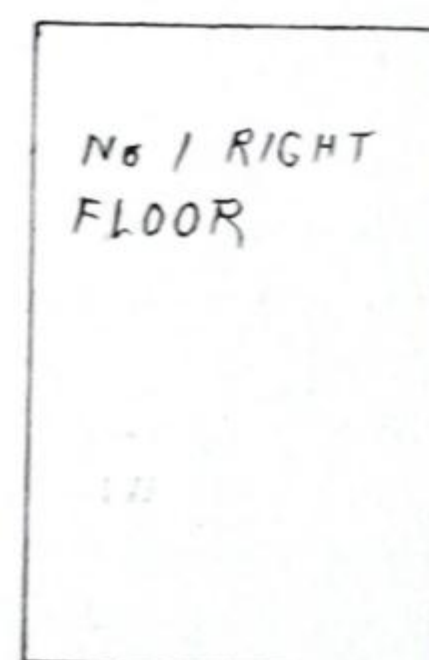
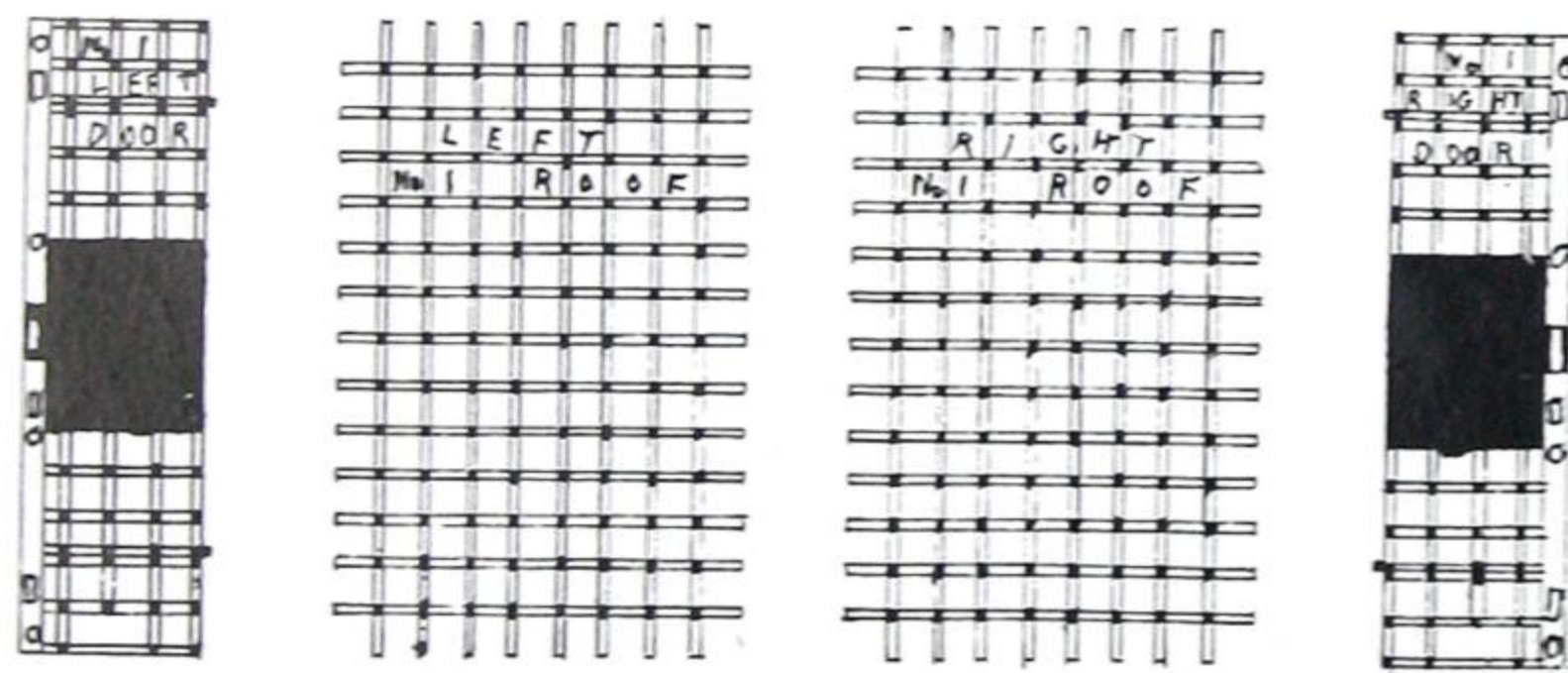
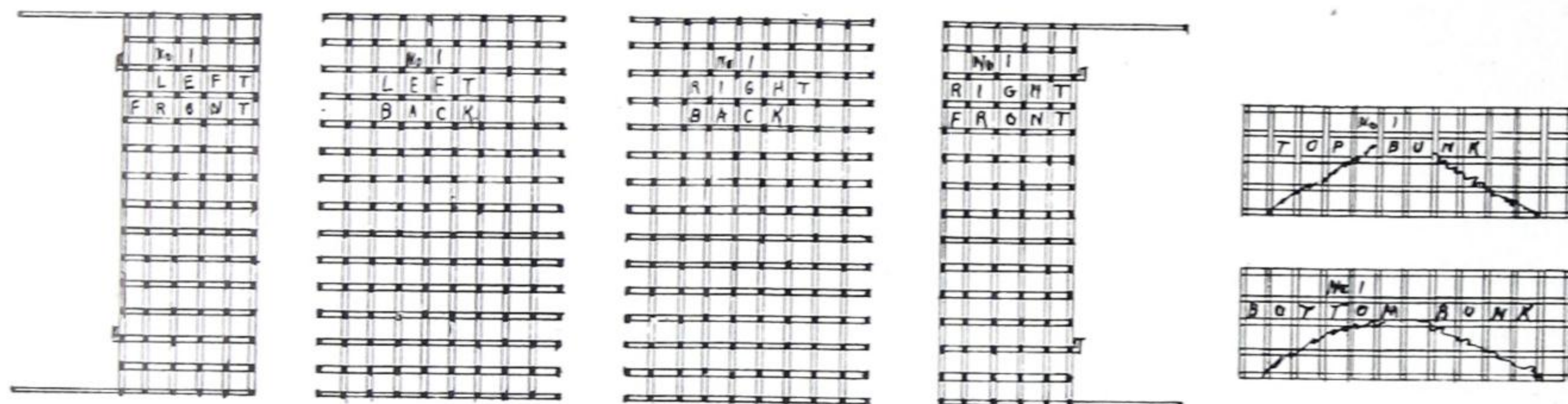
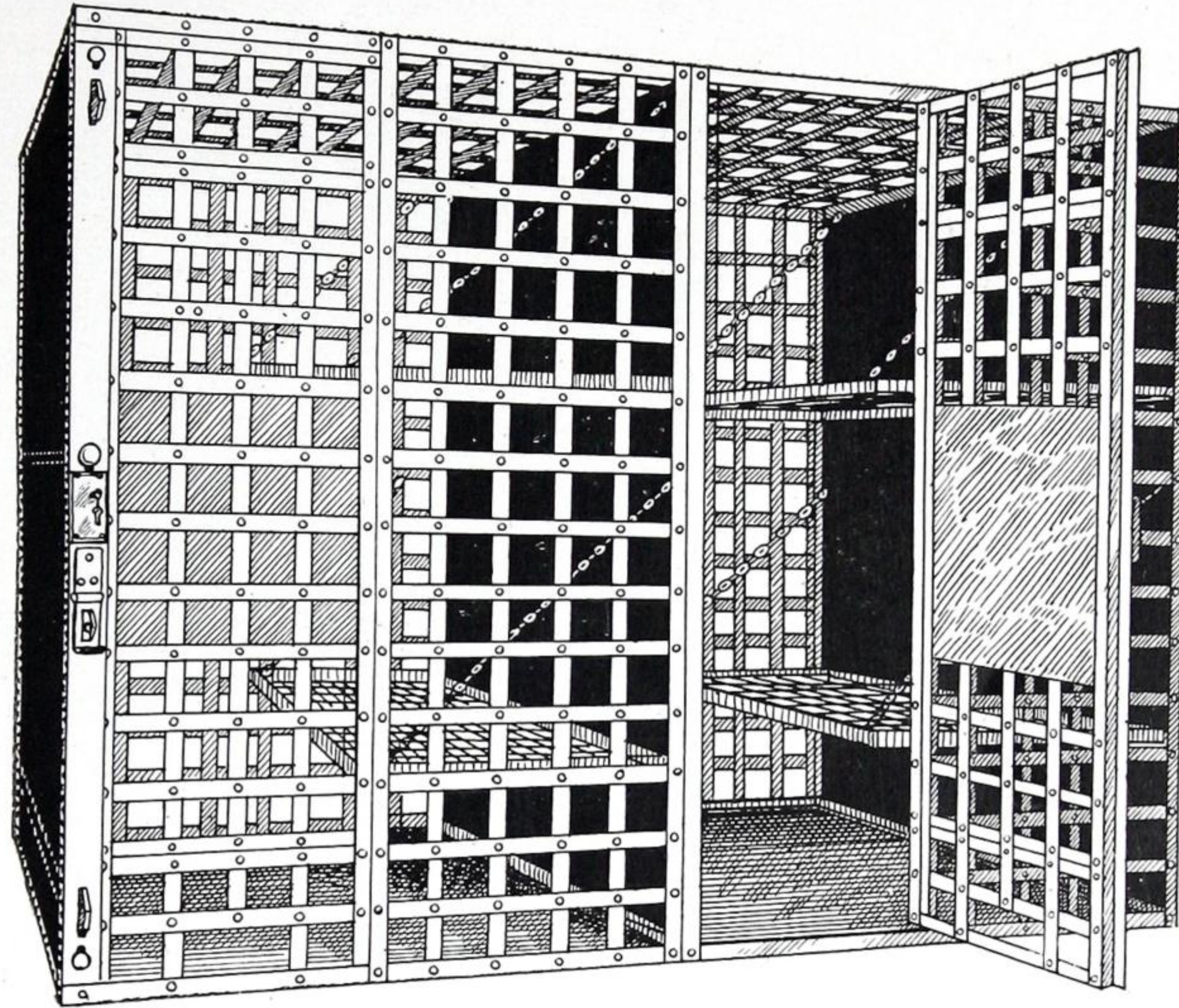


PLATE A-4





### PLATE A-5

DIMENSIONS OF EACH CELL 4' 6" WIDE BY 7' DEEP BY 7' HIGH.

Illustrating our Double Steel Cells of lattice bar construction, with solid steel ends, which permits of more cells being added at any time. Top or back can be solid plate work.

Doors equipped with our Patented Automatic Locking Device.

(REFER TO GENERAL SPECIFICATIONS ON PAGE 2)



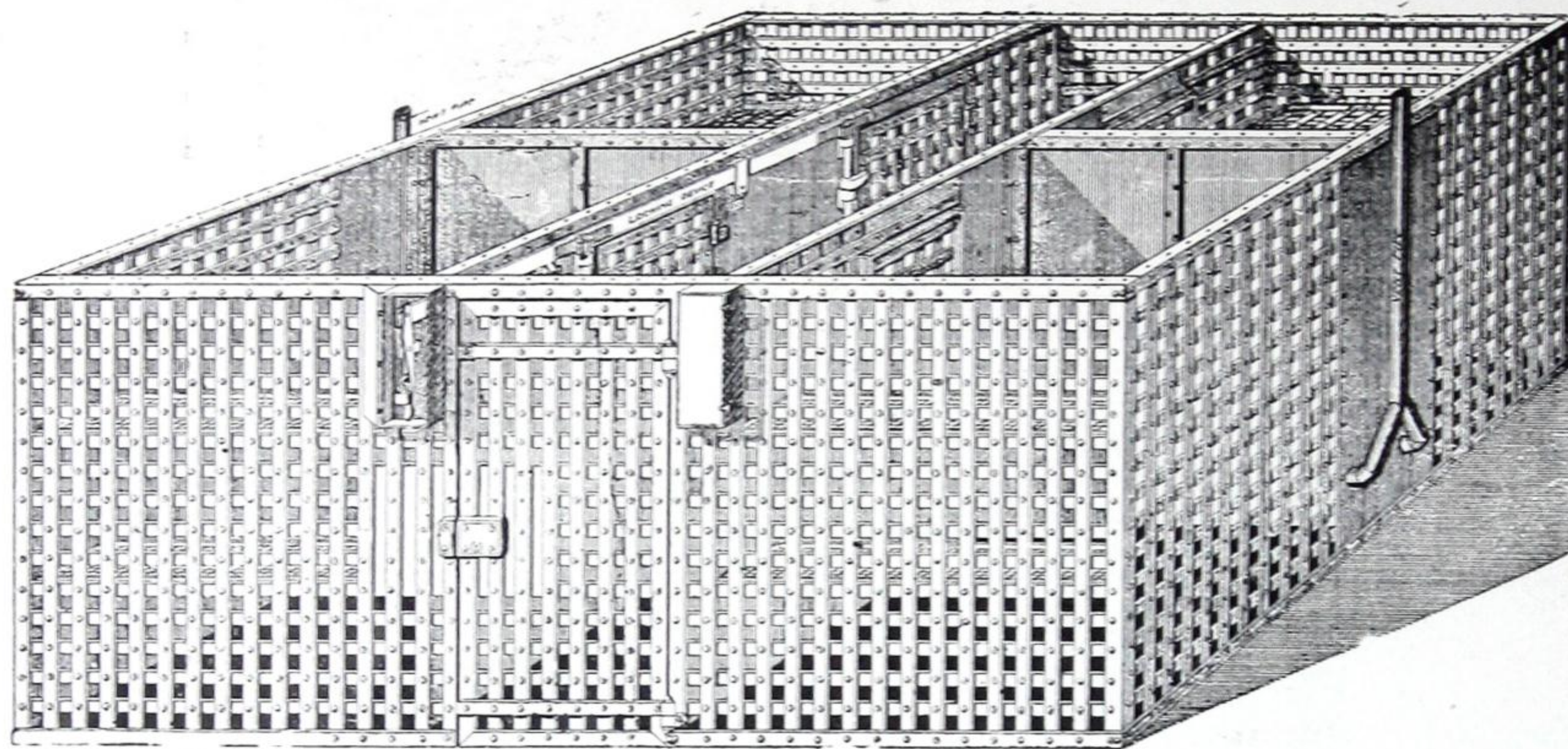


PLATE A-10

Illustrates a Cage of Four Cells, having Central Prisoners' Exercise Corridor.

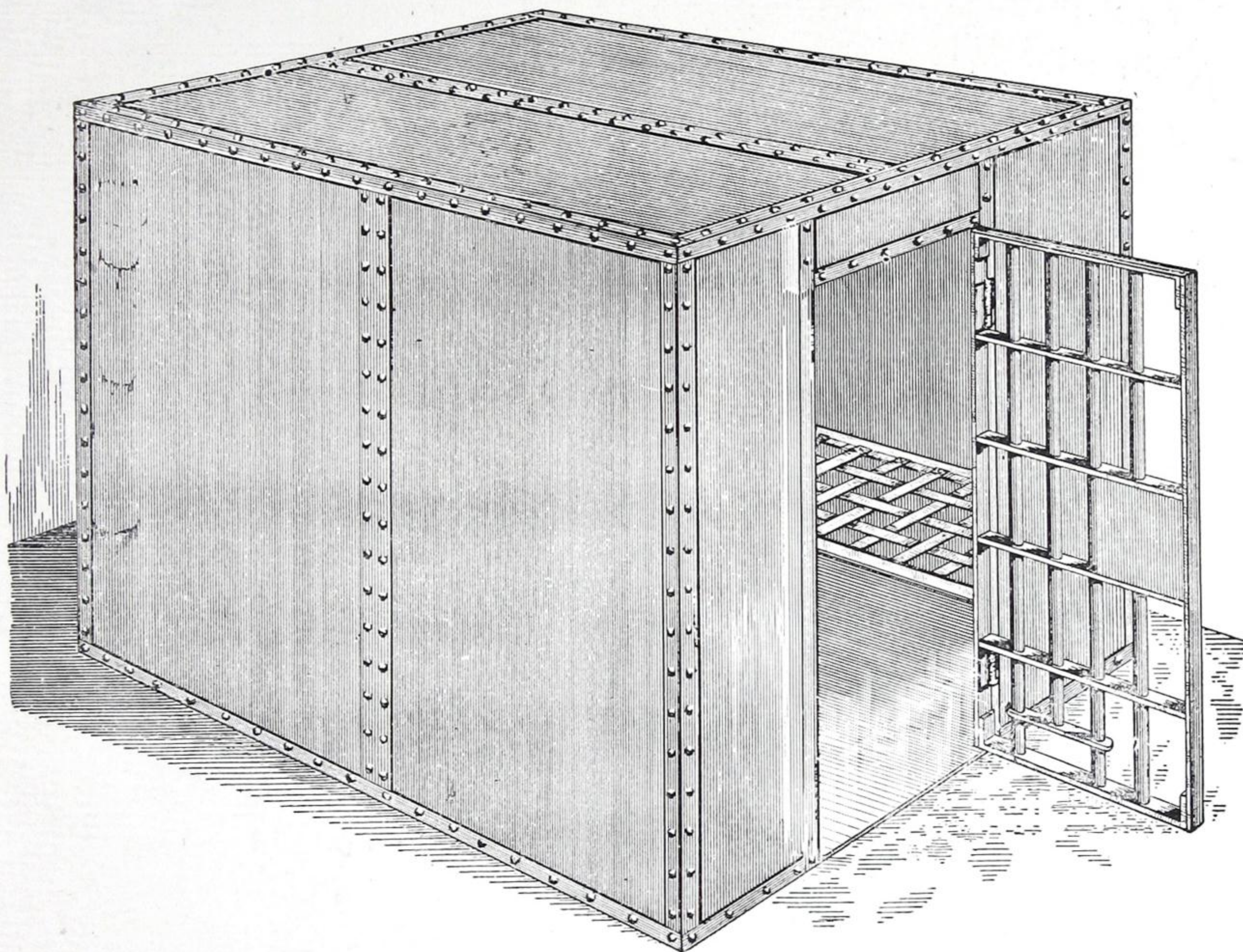
Cut shows top of Cells and Corridor removed to give a better idea as to the arrangement of the interior of the cage.

These cells are equipped with a Lever Locking Device operating all Cell Doors from the outside.

(SEE STANDARD SPECIFICATIONS PAGE 2)



## STANDARD SOLID PLATE SINGLE CELL (5 ft. wide x 7 ft. deep x 7 ft. high)



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This cut illustrates our **Single Solid Plate Cell** fitted with a **grated door**, the latter equipped with our patented locking device. Option, **Lattice Steel Door**.

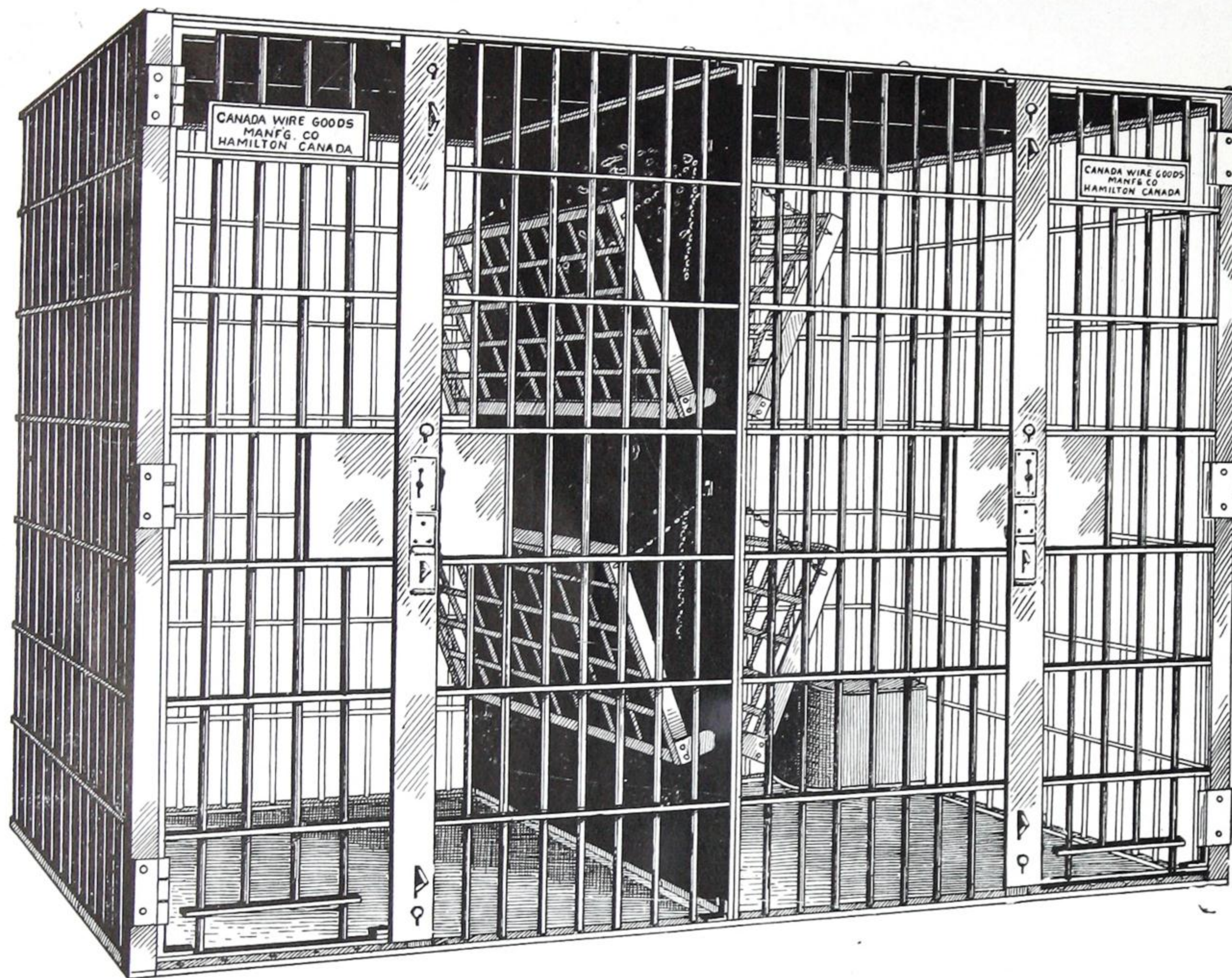
We can erect any modification of this cell.

(REFER TO STANDARD SPECIFICATIONS  
PAGE 2)

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PLATE A-9





Vertical Bars  $\frac{3}{4}$  inch diameter,  
on 4 inch centers.  
Horizontal Bars.  
2 inch x  $\frac{5}{8}$  inch Channel Plate Work.

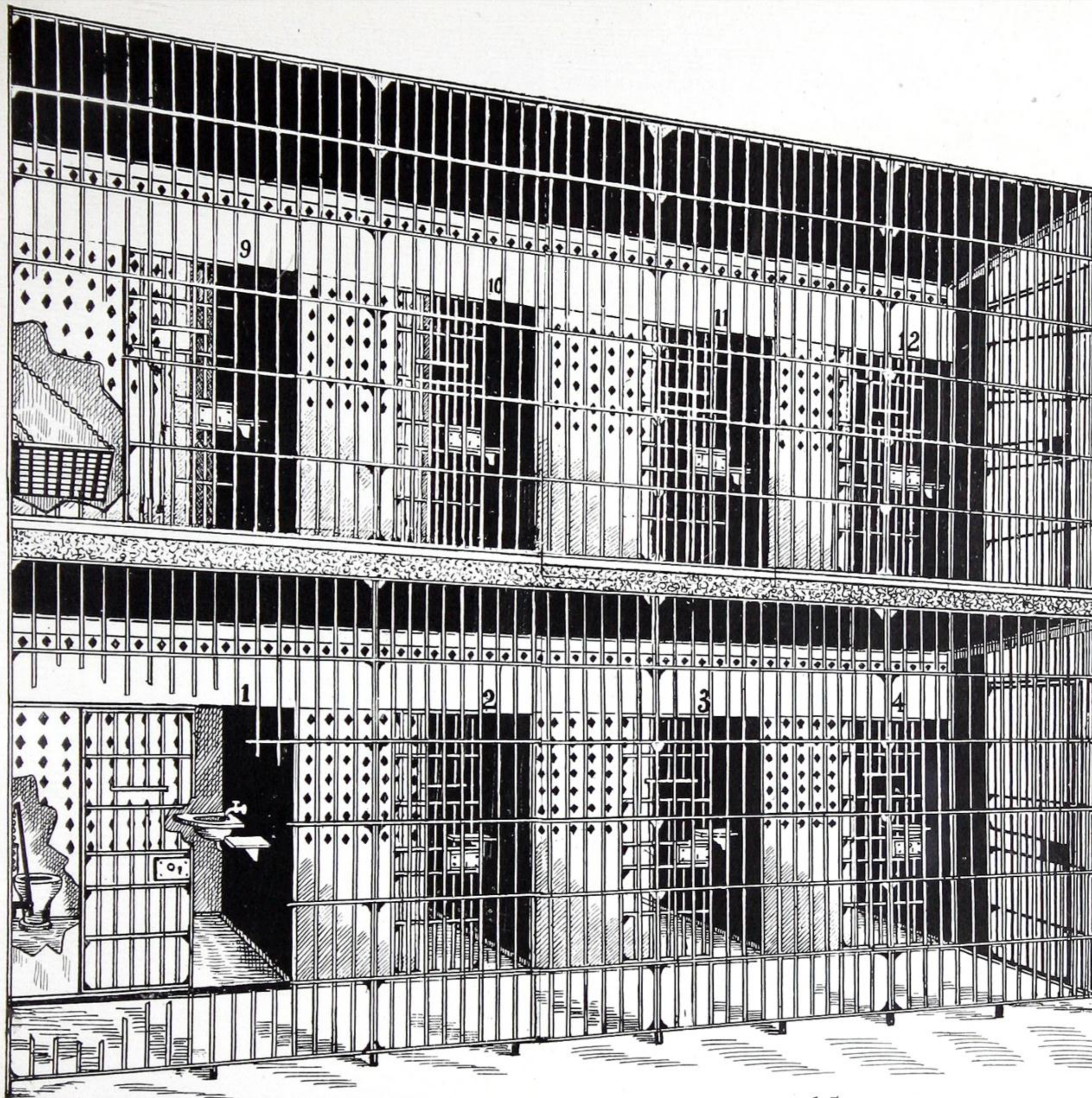
See Standard Specifications on  
Page 2.

PLATE A-7

Dimensions of each Cell 4 ft. 6 in. wide x 7 ft. deep x 7 ft. high.

Illustrating our Double Steel Cells of round bar construction. Doors equipped with our Patented Locking Device; the mere slamming of the door secures it.





## PLATE A-11

Sectional illustration of a

# **FIREPROOF CELL HOUSE**

## **ONE OF OUR RECENT INSTALLATIONS**

For General Floor Plan see Page 3.

We recently erected these Cell Houses  
for the County of Wellington, Guelph,  
including all other Steel Work, viz.,  
Window Barriers (see page 21)  
Solid Plate Doors (see page 19)



## Illustrating our method of FABRICATING HEXAGON BAR GRILLES.

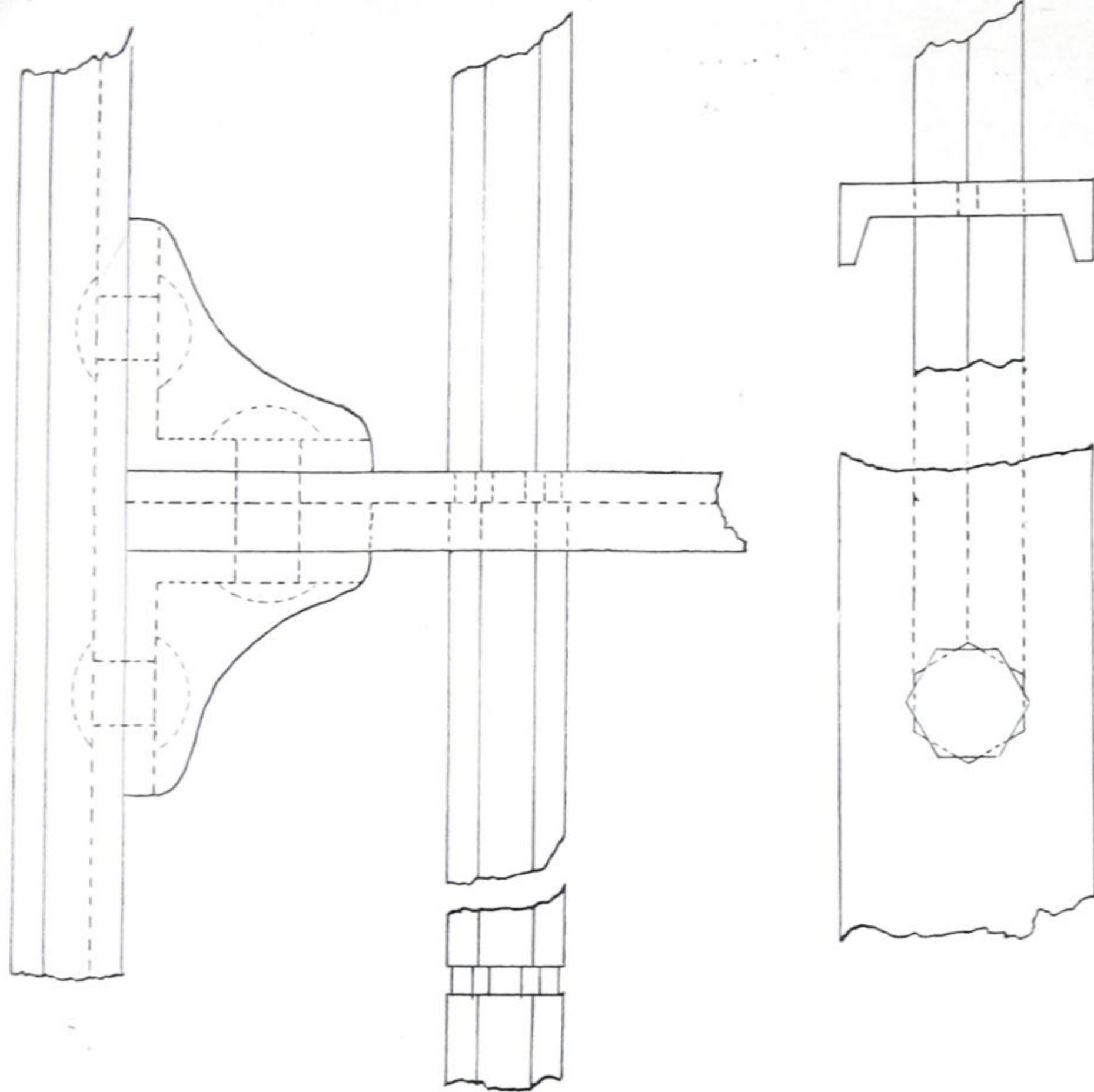


PLATE A-12

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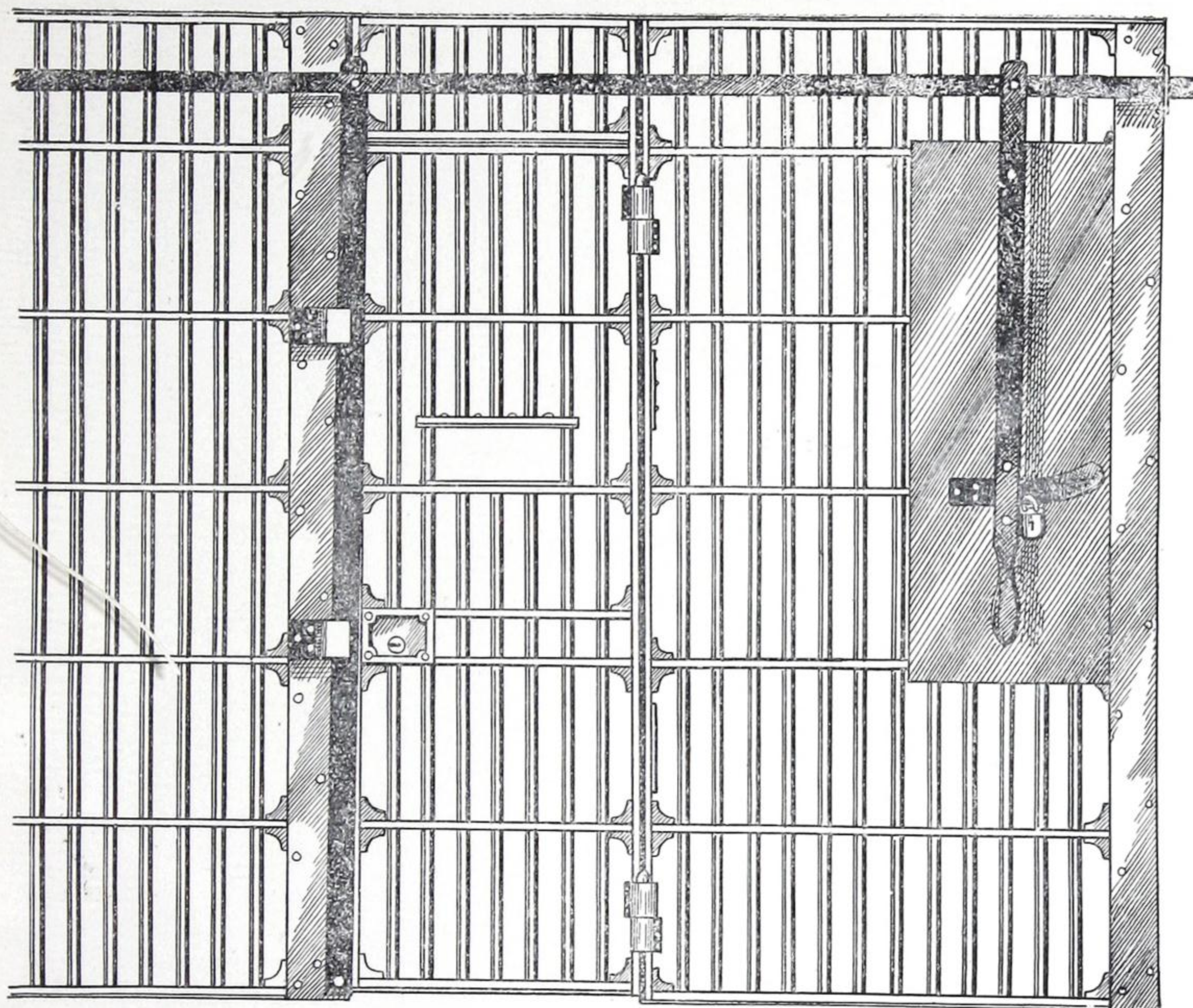
In explanation of this method of construction we desire to call your attention to the following :—

The notched vertical bars are passed through hexagon holes in channel bar horizontals, and are then given a twelfth of a turn, these bars are held in position by a lock bar rivetted to top and bottom channel, thus effectually securing the horizontals the full length of same.

The horizontals are securely rivetted to side bars by steel castings, thereby eliminating all chances of sagging.

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## CELL FRONTS

Specially adapted for Concrete Walls

HEXAGON BAR CONSTRUCTION.

(SEE FLOOR PLAN No. 9)

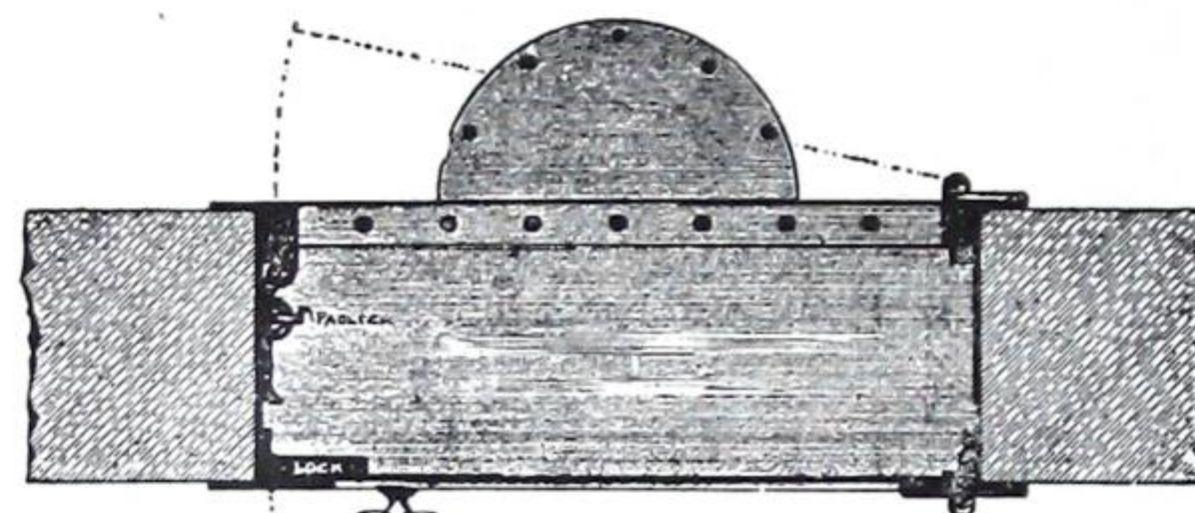
PLATE A-15



## DOUBLE ENTRANCE DOORS

Standard size 3 ft. wide, 7 ft. high.  
Special size made to order.

When writing for prices, state size of  
opening, also thickness of wall.

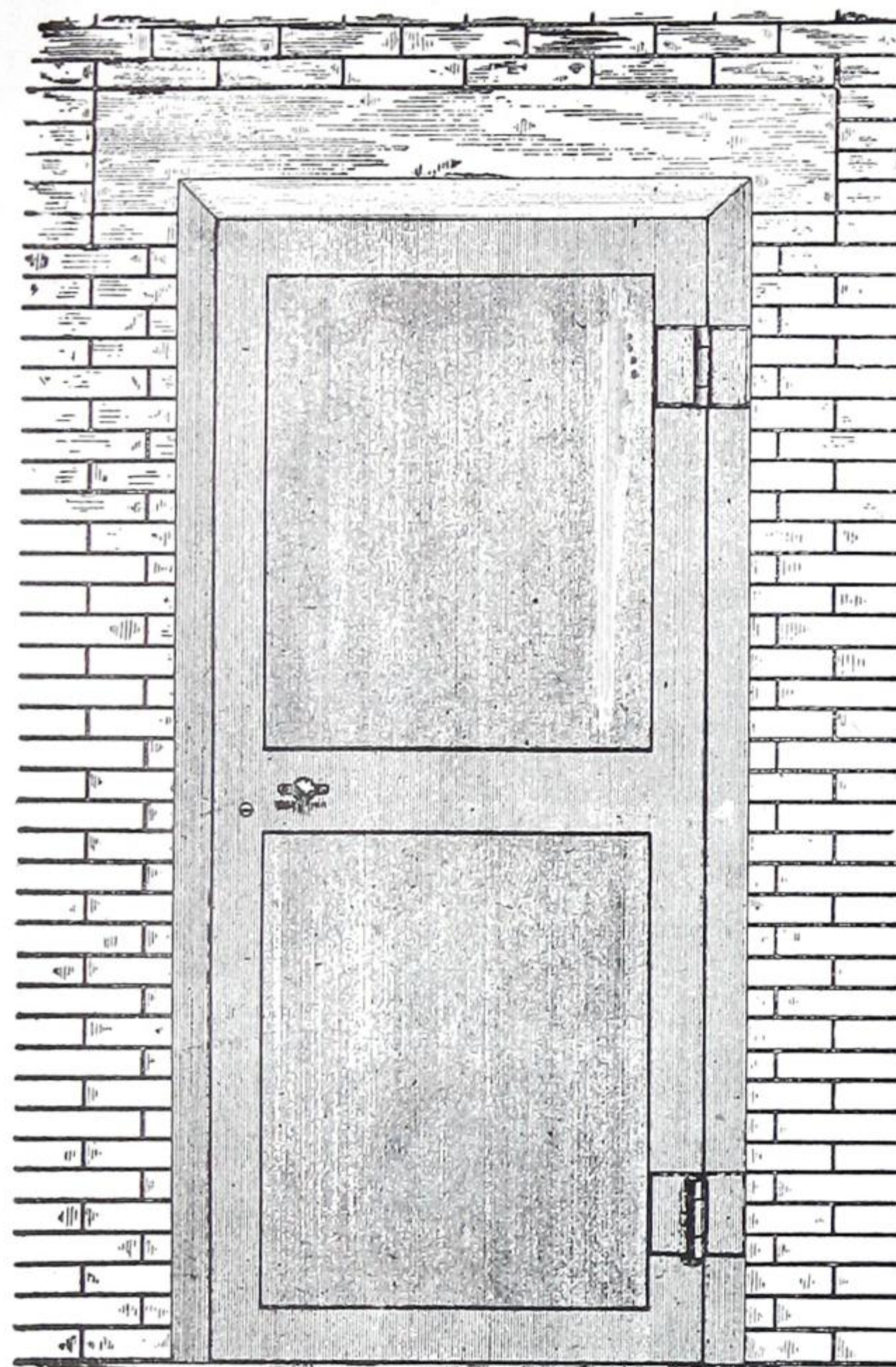


PLAN OF DOUBLE ENTRANCE DOORS.

PLATE A-26

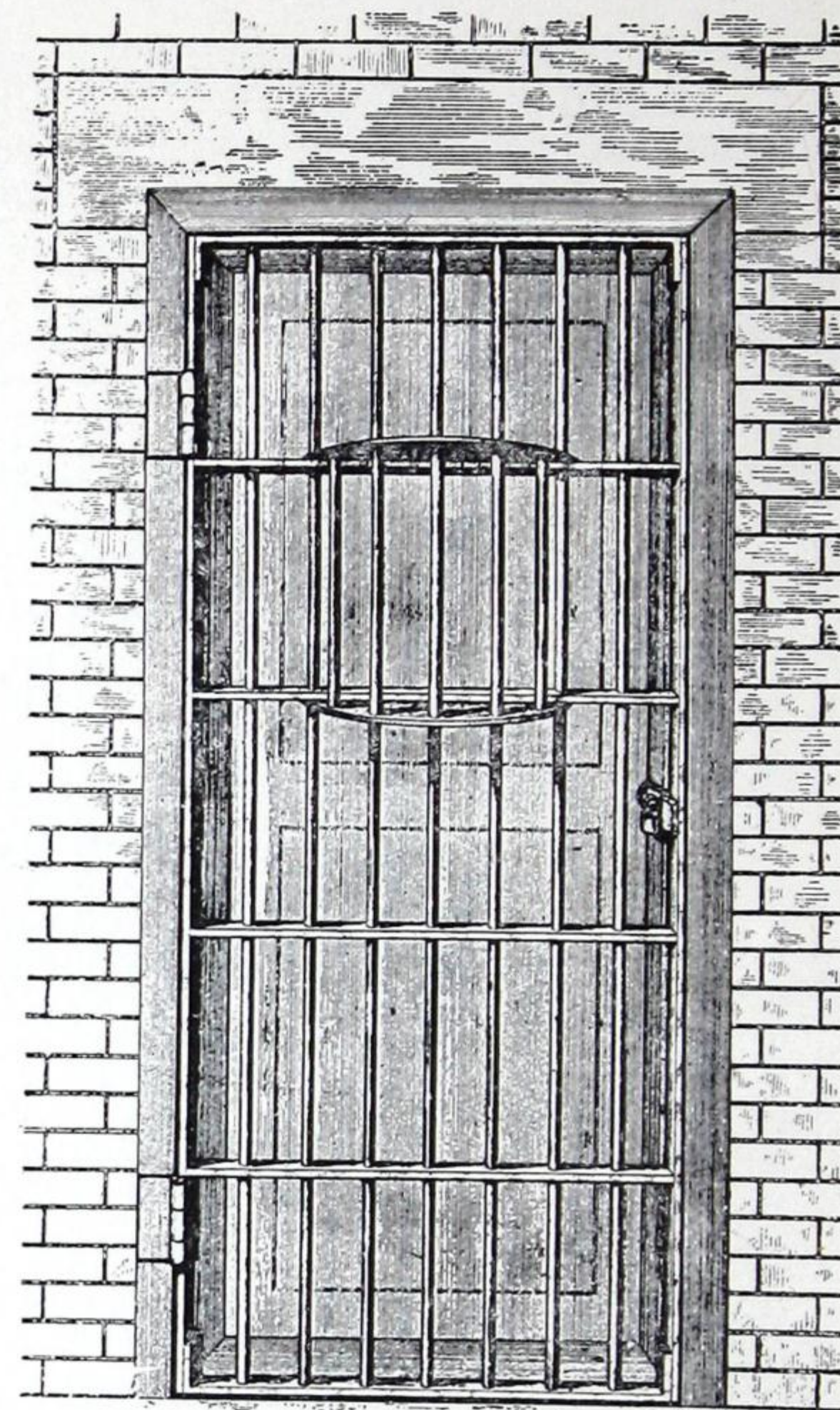
We illustrate on this page a Double Entrance Door, entering Cell Room. The outside door made of Solid Steel Plate and the inside door made of Open Grated Work with Peep Basket, which enables jailor to view the entire interior of Cell Room before he opens the inside door.

The jambs are made of solid steel plate to suit the thickness of wall.



FRONT ELEVATION  
of outside Door.

PLATE A-25



FRONT ELEVATION OF INSIDE DOOR

PLATE A-27



PLATE A-28

# SOLID PLATE CELL ROOM DOOR

With Peep Basket.  
Complete with Angle Frame  
and Anchors.  
Standard Size 3 ft. x 7 ft.

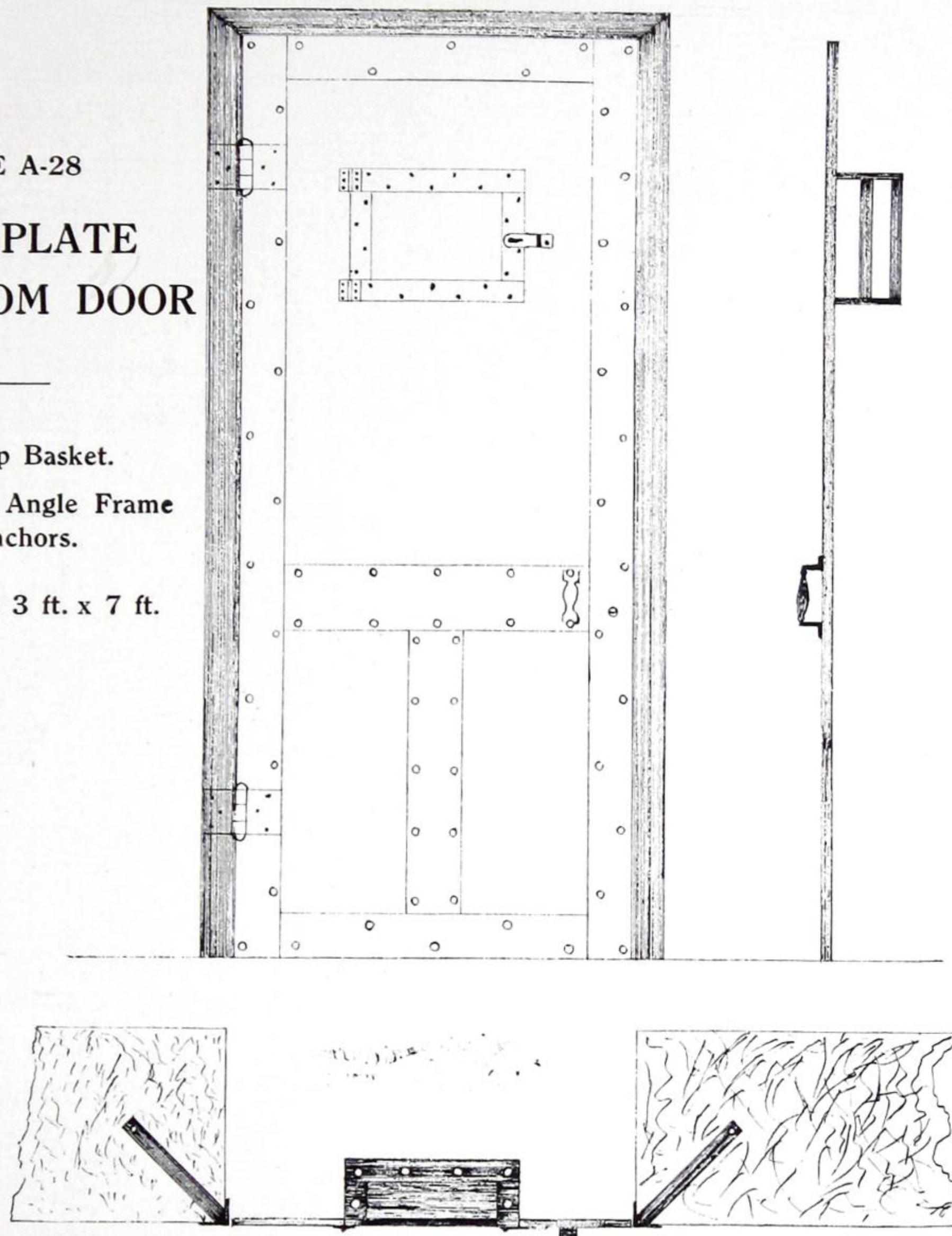


PLATE A-29

Illustrating Double Entrance Door, without Observation Wicket. Inside Grated Door and Outside Solid Plate Door fitted with Solid Bronze Prison Deadlock.  
Steel Casing furnished as shown on plan, Plate A-26.



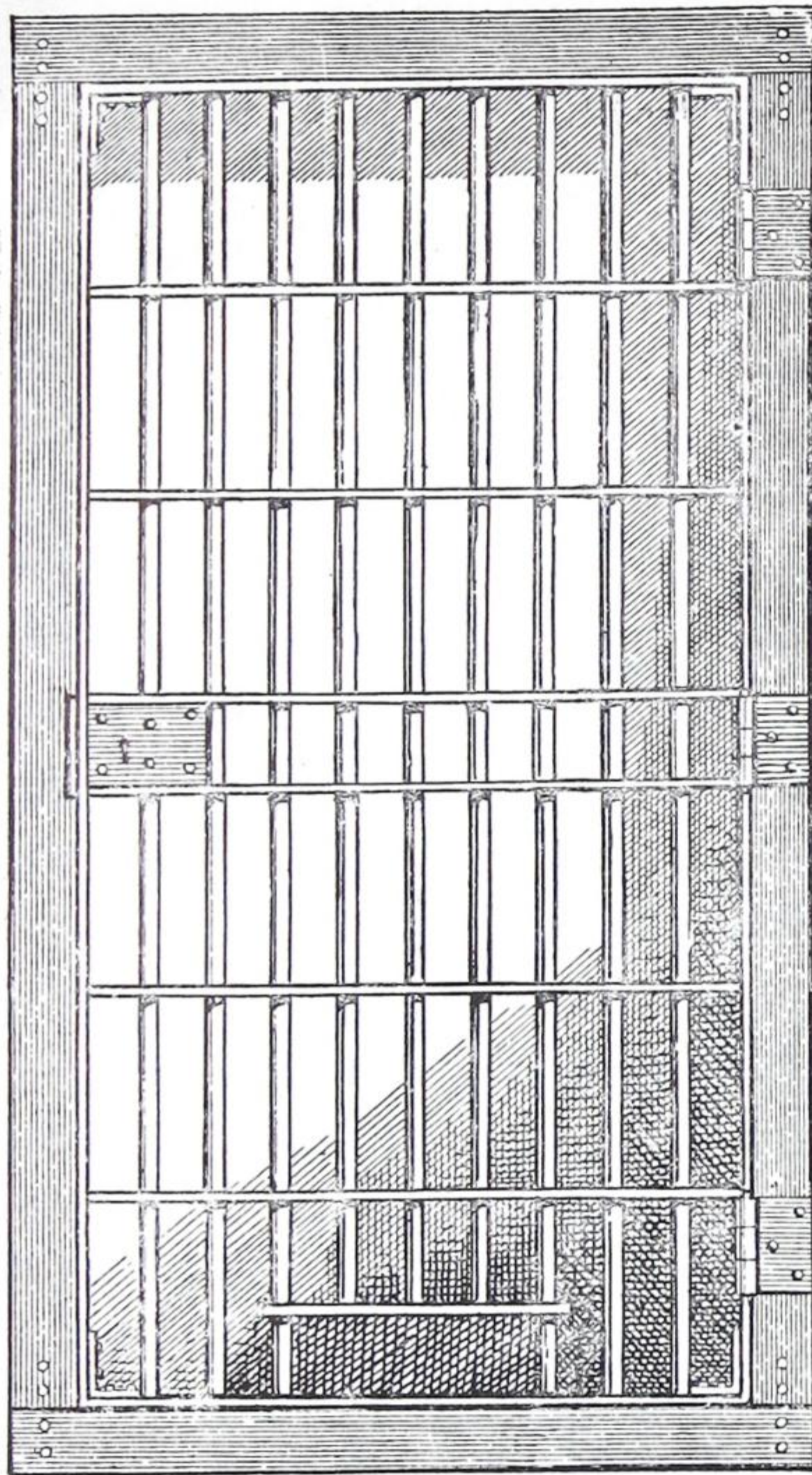


PLATE A-30

When writing for prices, state size of opening and thickness of wall.

Illustrating Grated Cell Door complete with steel casing for wall. Door fitted with food opening. Standard size 2' 4" x 6' 6".



PLATE A-31  
Semi-Circular Barrier Grate  
Round Bar Construction.



# WINDOW BARRIERS

CONSTRUCTED OF  $\frac{7}{8}$ " HEXAGON VERTICAL BARS.

2" CHANNEL HORIZONTAL BARS.

(FABRICATED AS ILLUSTRATED ON PAGE 16)

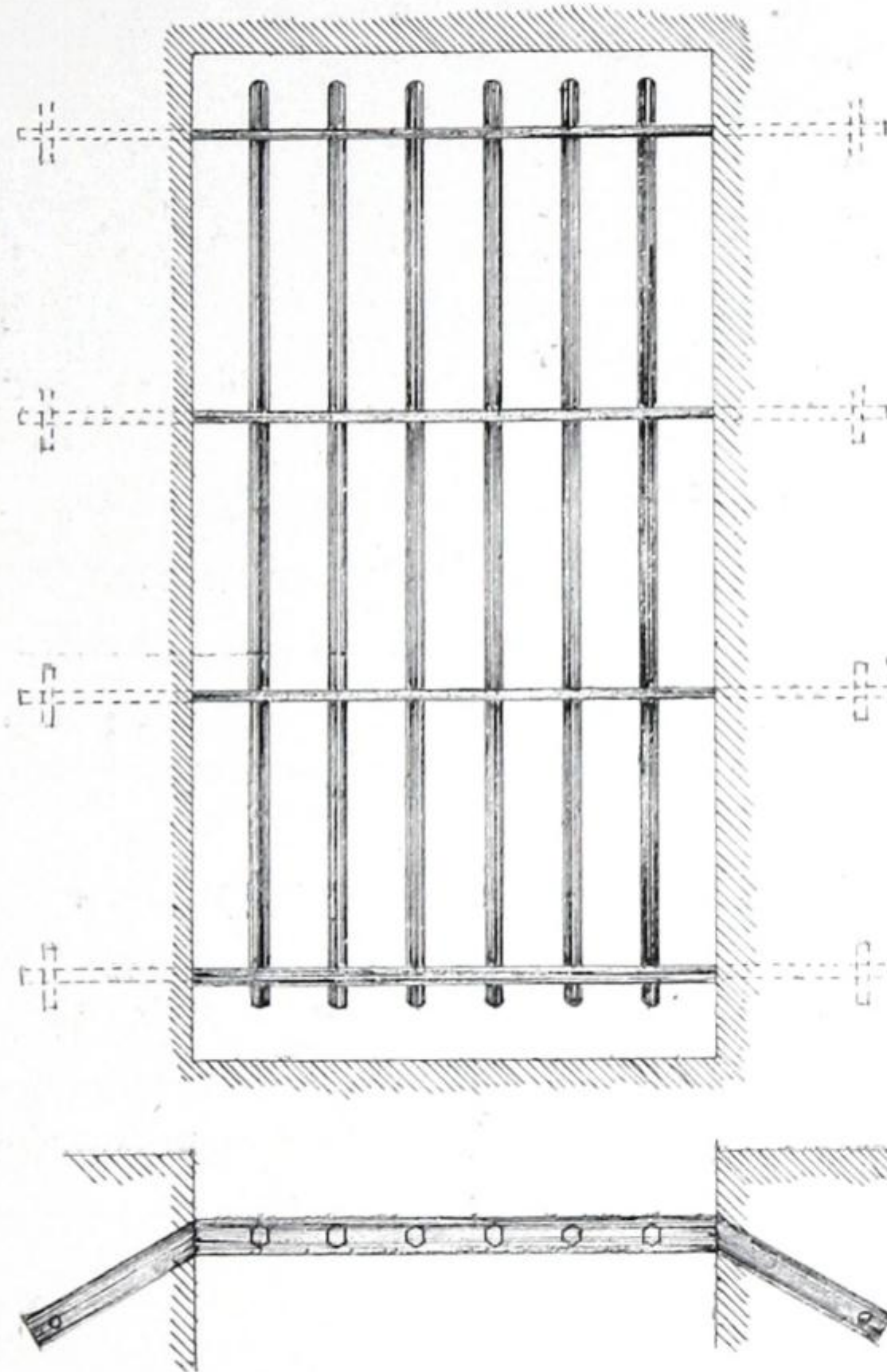


PLATE A-32 (STATIONARY)

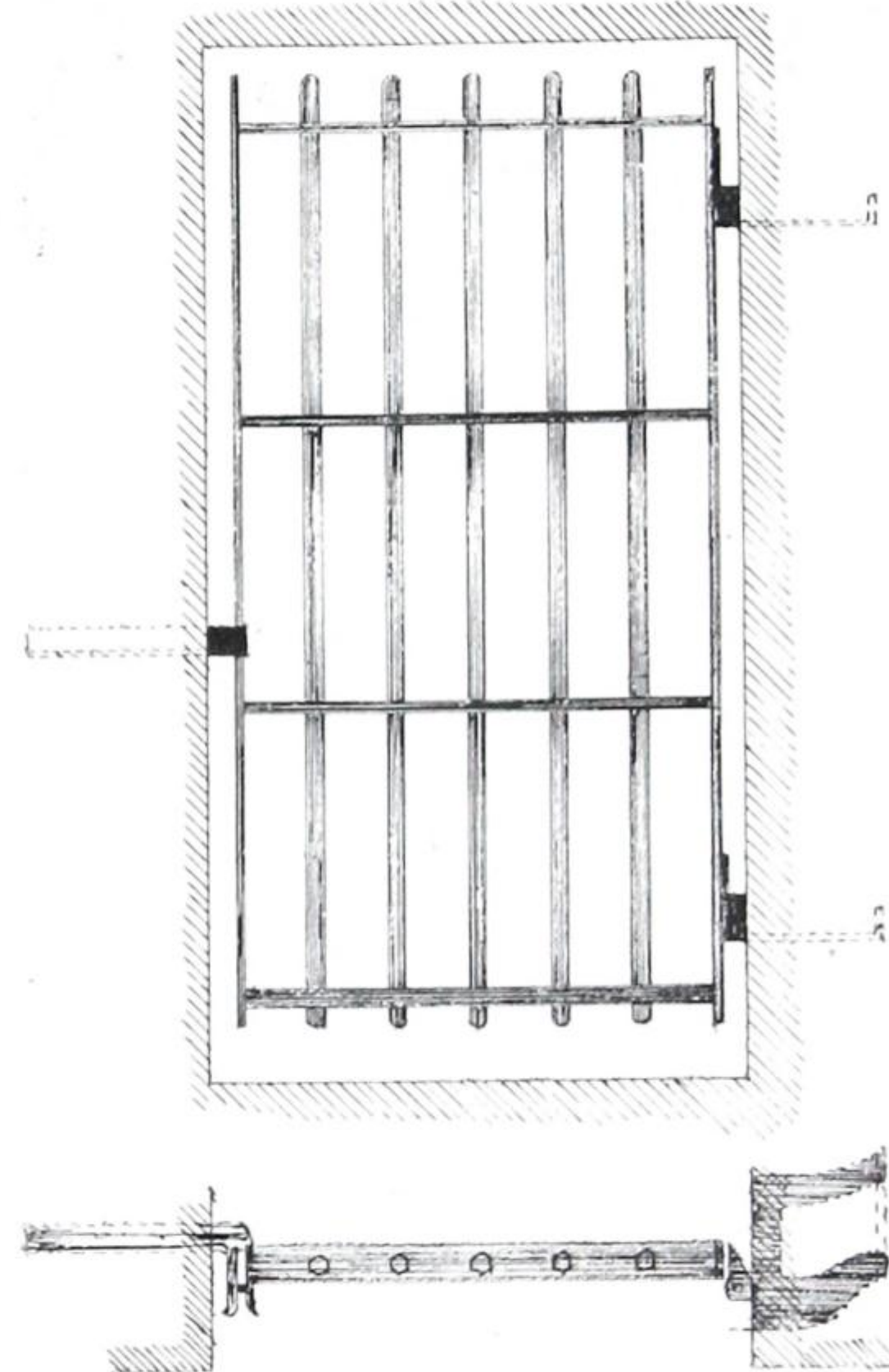


PLATE A-33 (HINGED)



# WINDOW BARRIERS

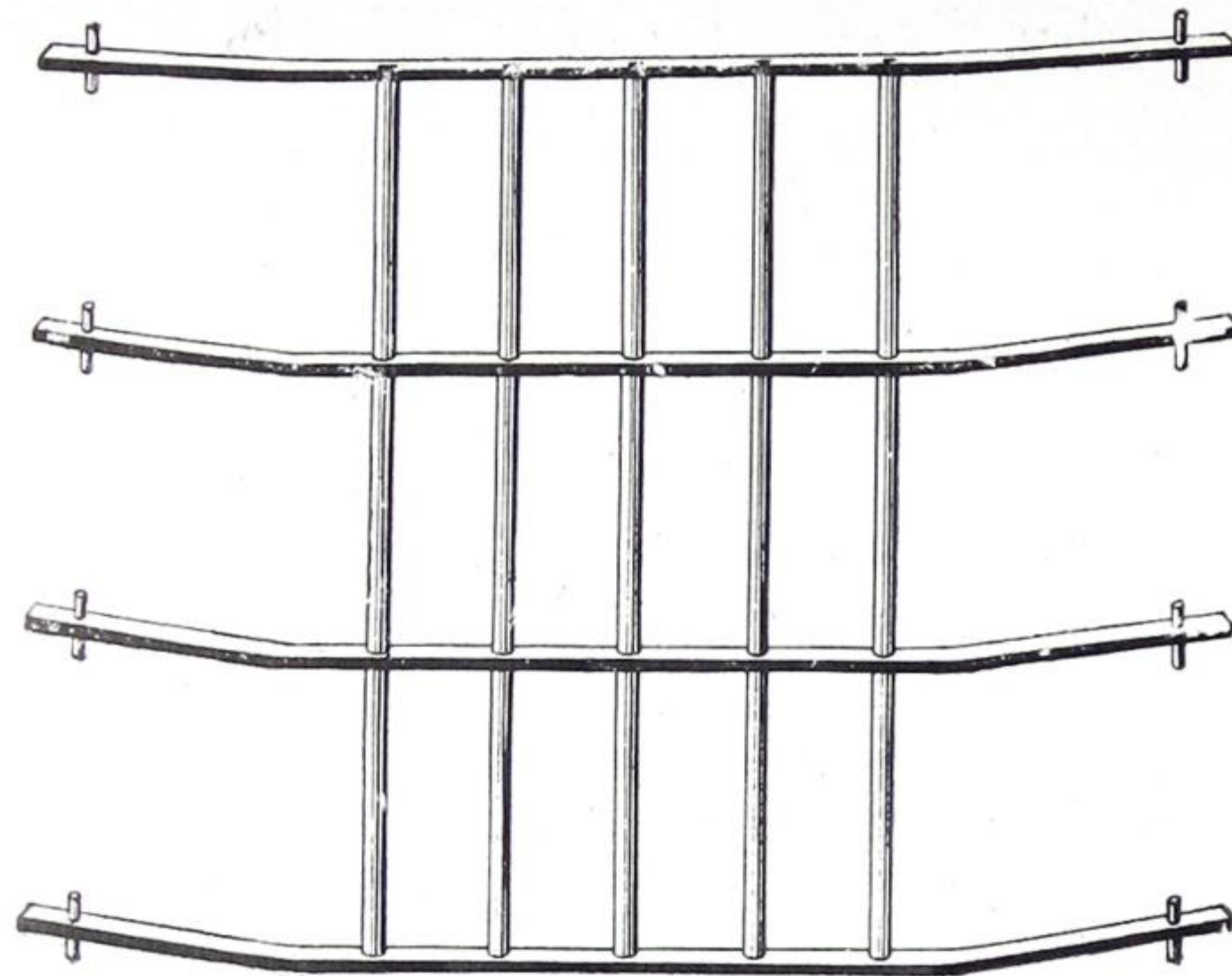
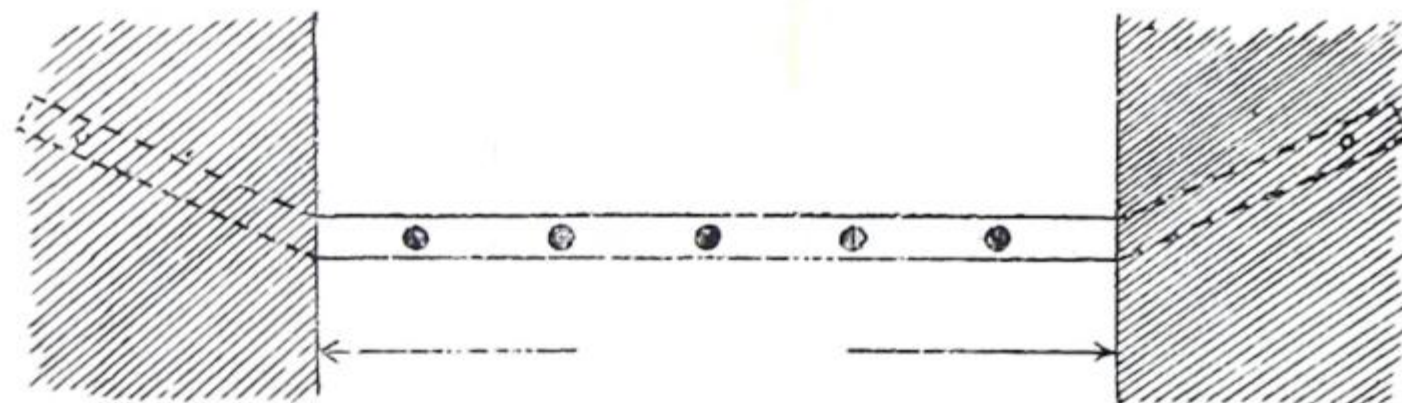


PLATE A-40

These can be lined with our Hard Steel Prison Screening.  
(See Plate A-41).



PLAN OF PRISON WINDOW GRATING

PLATE A-41

Illustrating Hinged Coal Bunk Window Grating, equipped with our jump lock and Yale jail pad-lock. Lined with our hard steel wire prison screening.

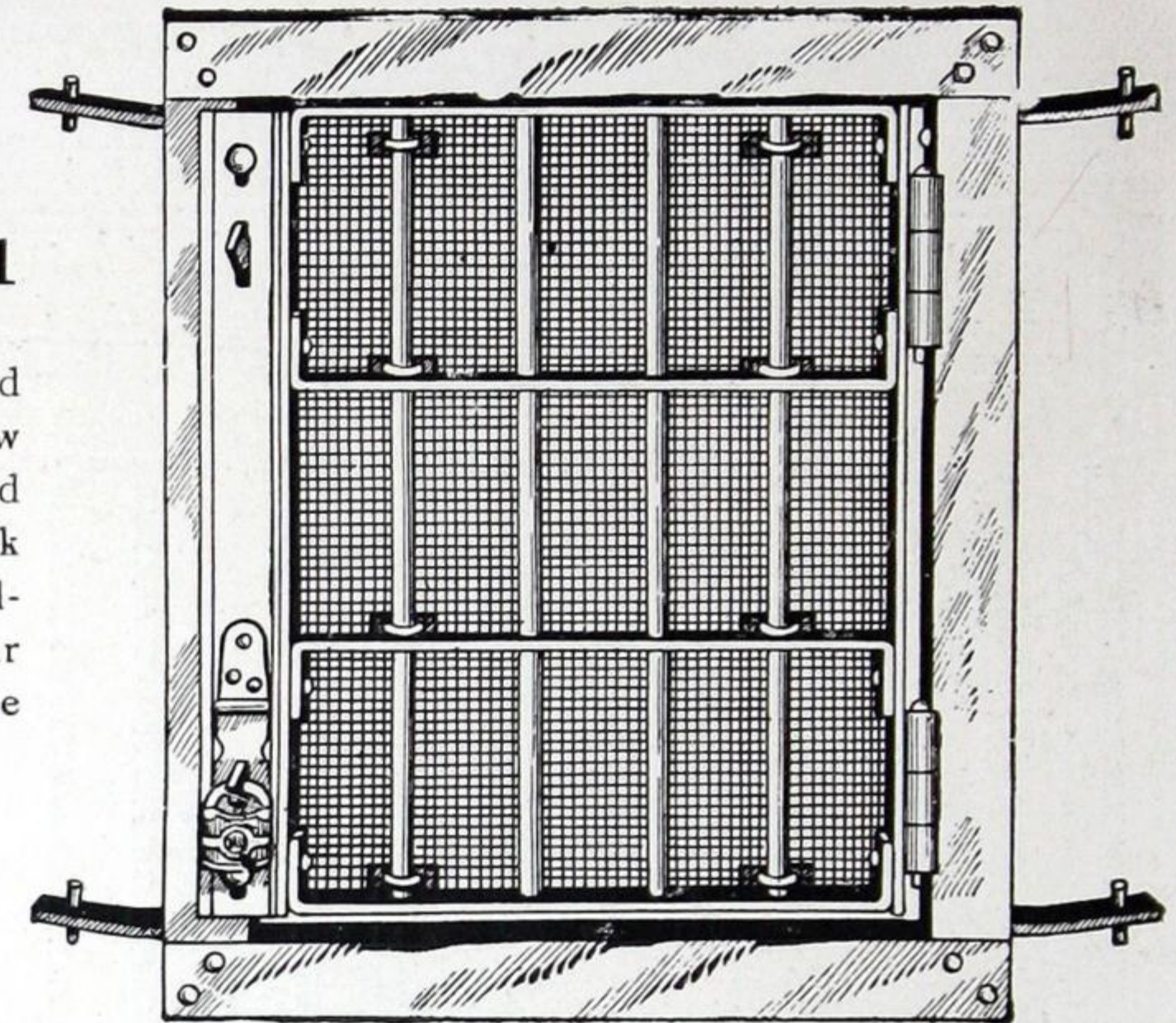
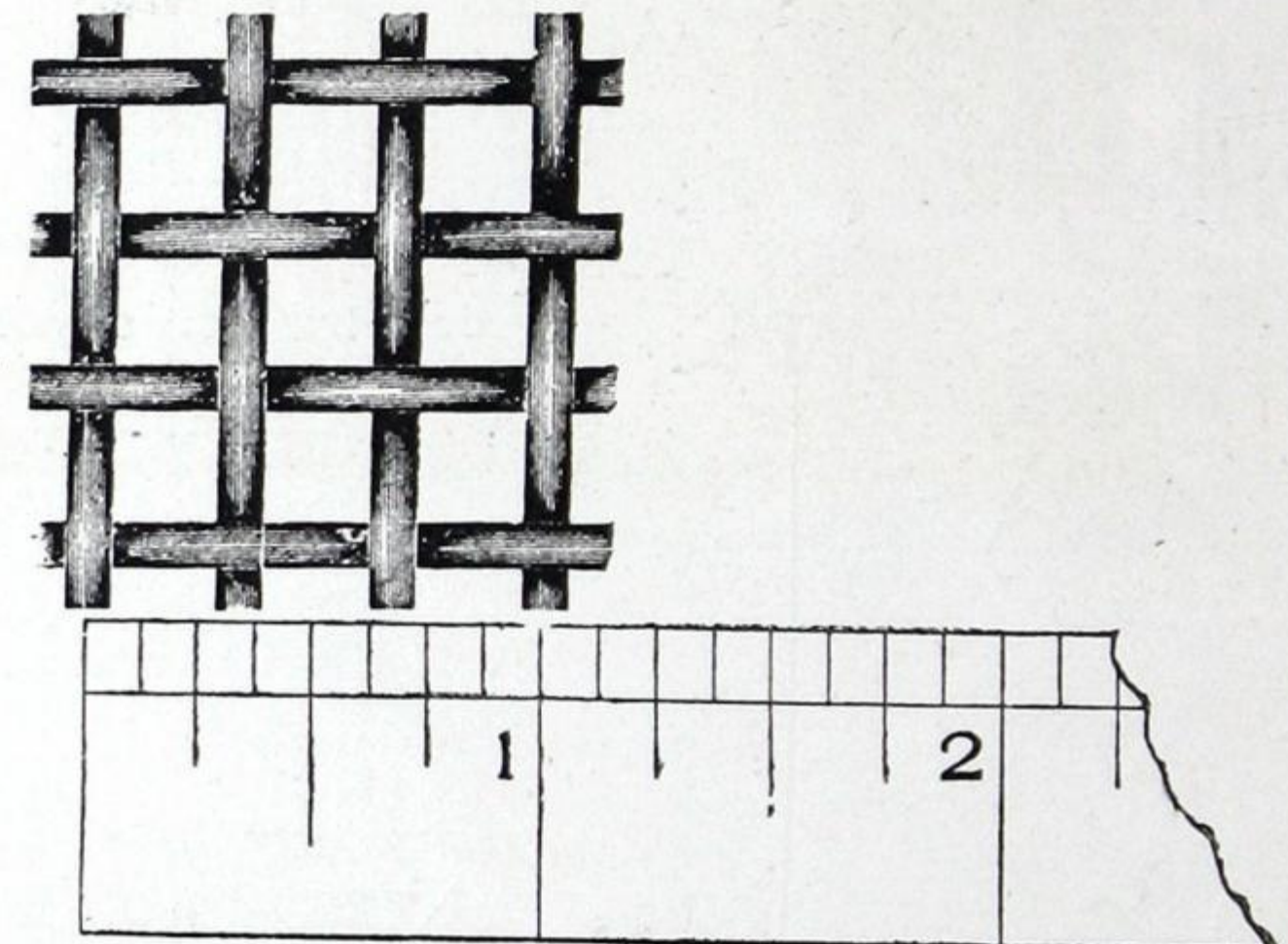


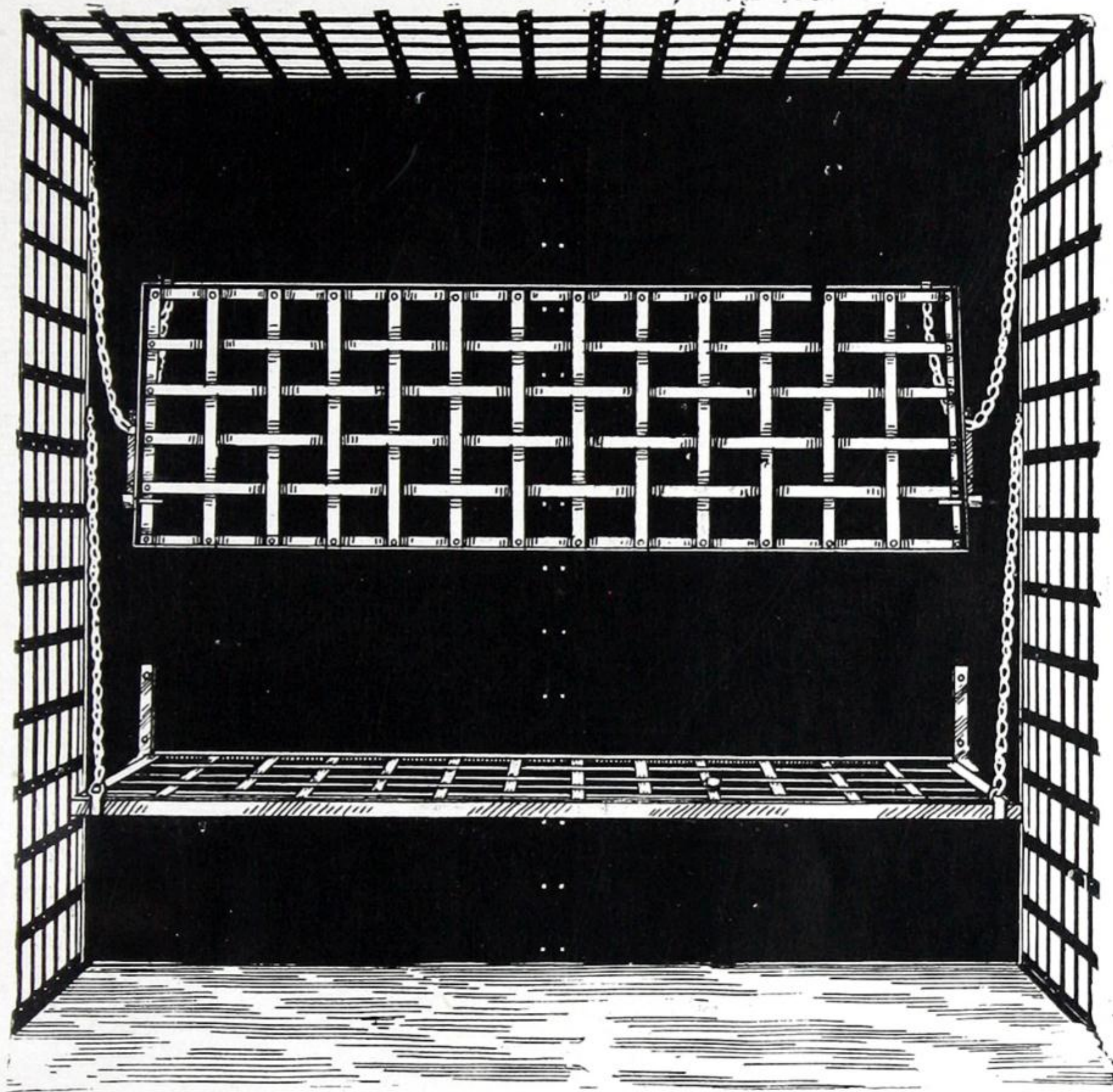
PLATE A-42

Illustrating 3 meshes per lineal inch **Hard Steel Wire Prison Screening**. We manufacture all grades of wire cloth in Steel, Brass and Copper.





## CELL BUNKS



**PLATE A-45**

STANDARD SIZE 2'x6'

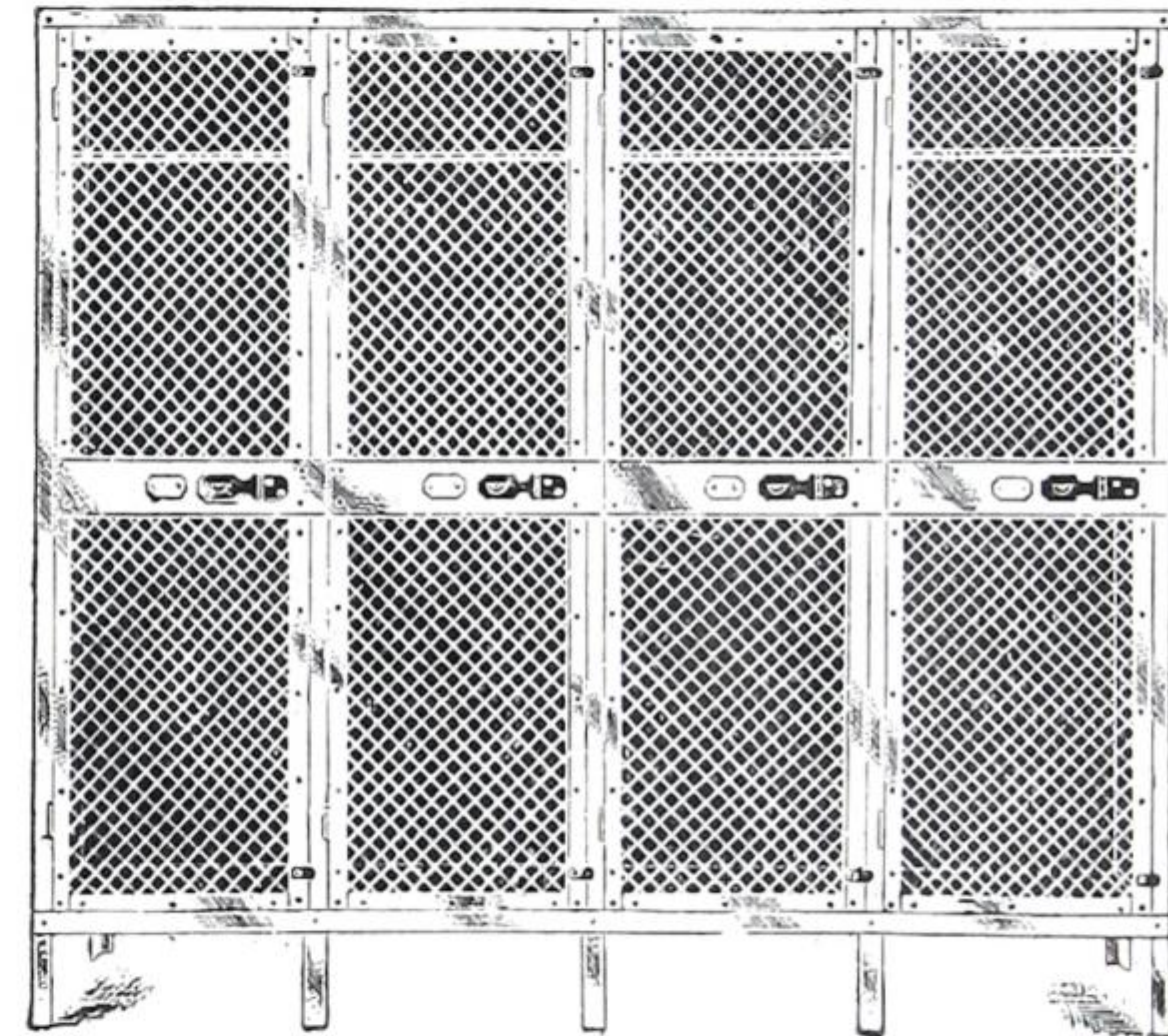
(SEE GENERAL SPECIFICATIONS PAGE 2)

STYLE F.

## METAL LOCKERS

OPEN MESH FRONTS

ALL OTHER SECTIONS SHEET STEEL



This style of Locker is designed to meet conditions as existing in Police Stations and Firemen's Quarters, where more than the ordinary paraphernalia is to be cared for.

Can be constructed in batteries, with doors operated by a lever locking device.



# HEAVY WINDOW GUARDS-CHANNEL IRON FRAME

For Prisons these Heavy Guards are usually made with Anchors to be built into walls.

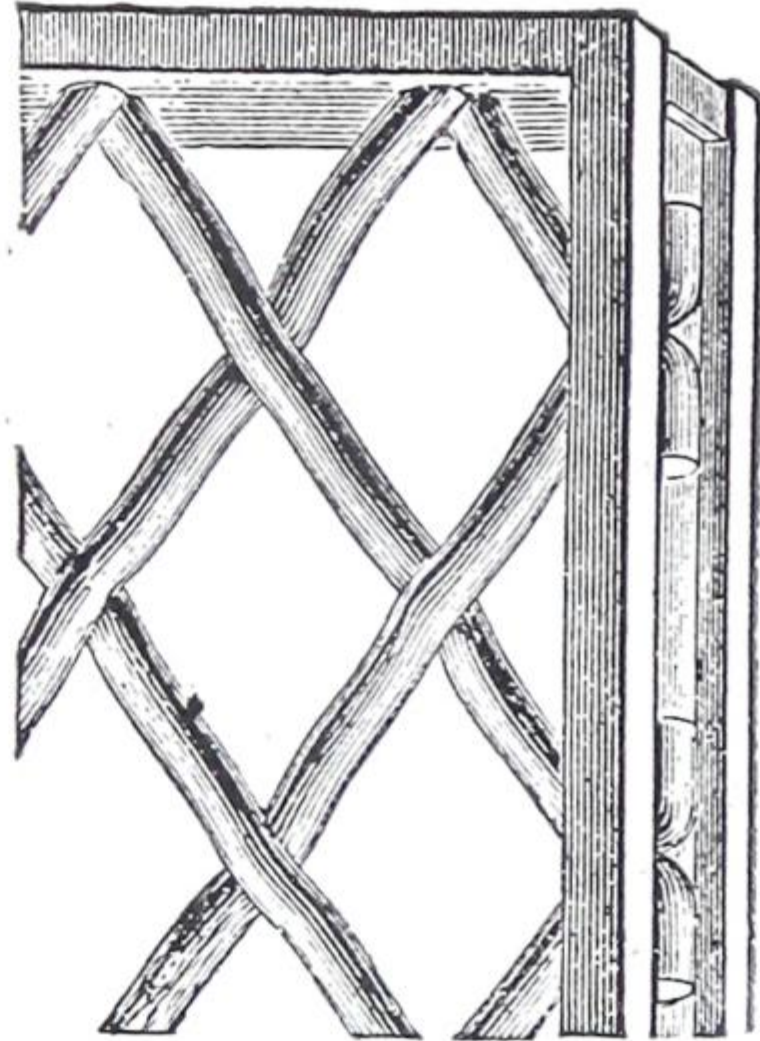


PLATE A-50

This cut shows how the wire is secured in our Channel Iron Frame Guards, making this class of work very strong and secure. The best and most desirable way to attach these guards to the windows is to screw them to the window jamb.

This guard is especially adapted for Jails, Asylums and Reformatories.

We make a complete line of general Wire and Ornamental Iron Work.

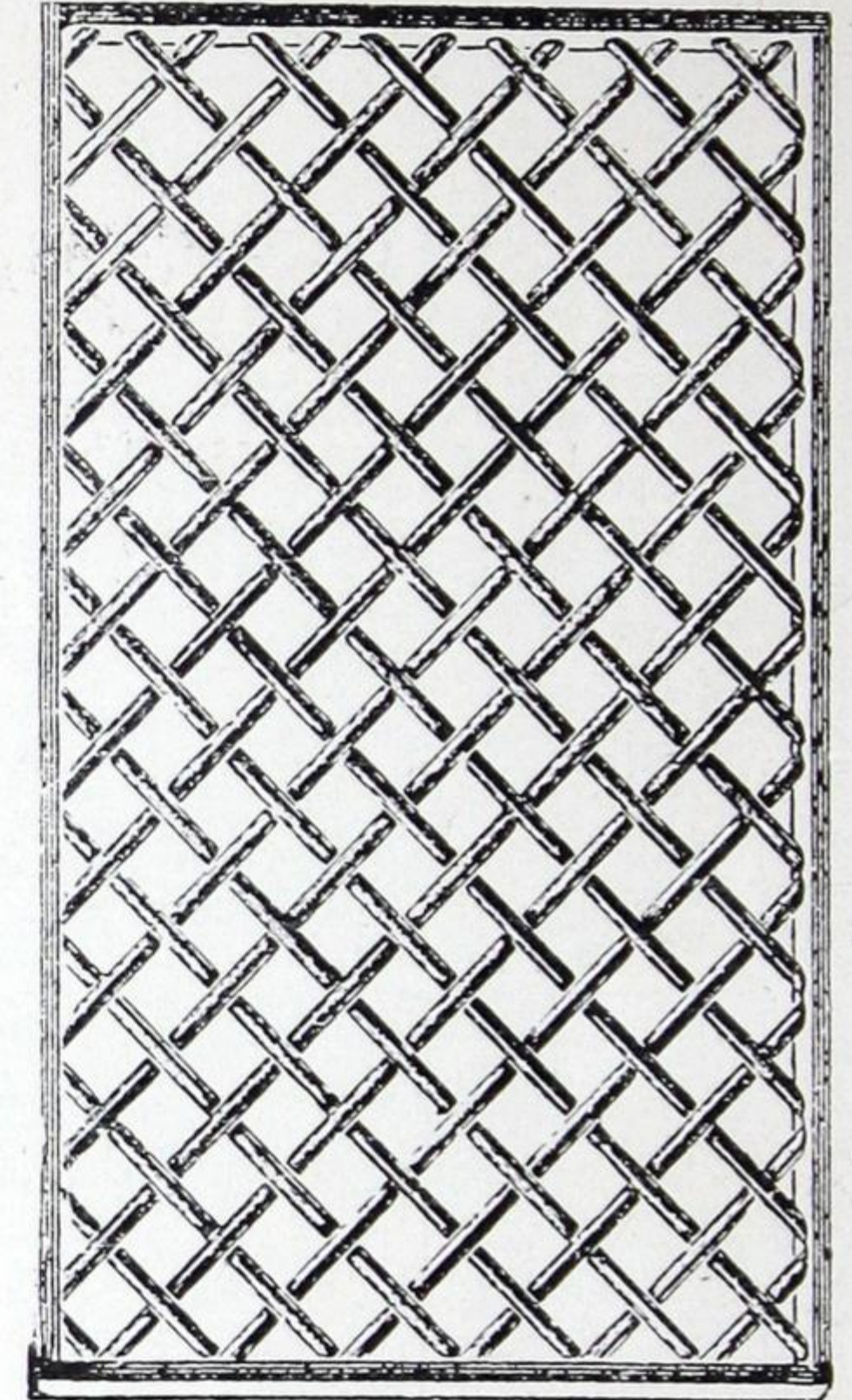


PLATE A-51



# Sanitary Equipment for Town or Village Lockup

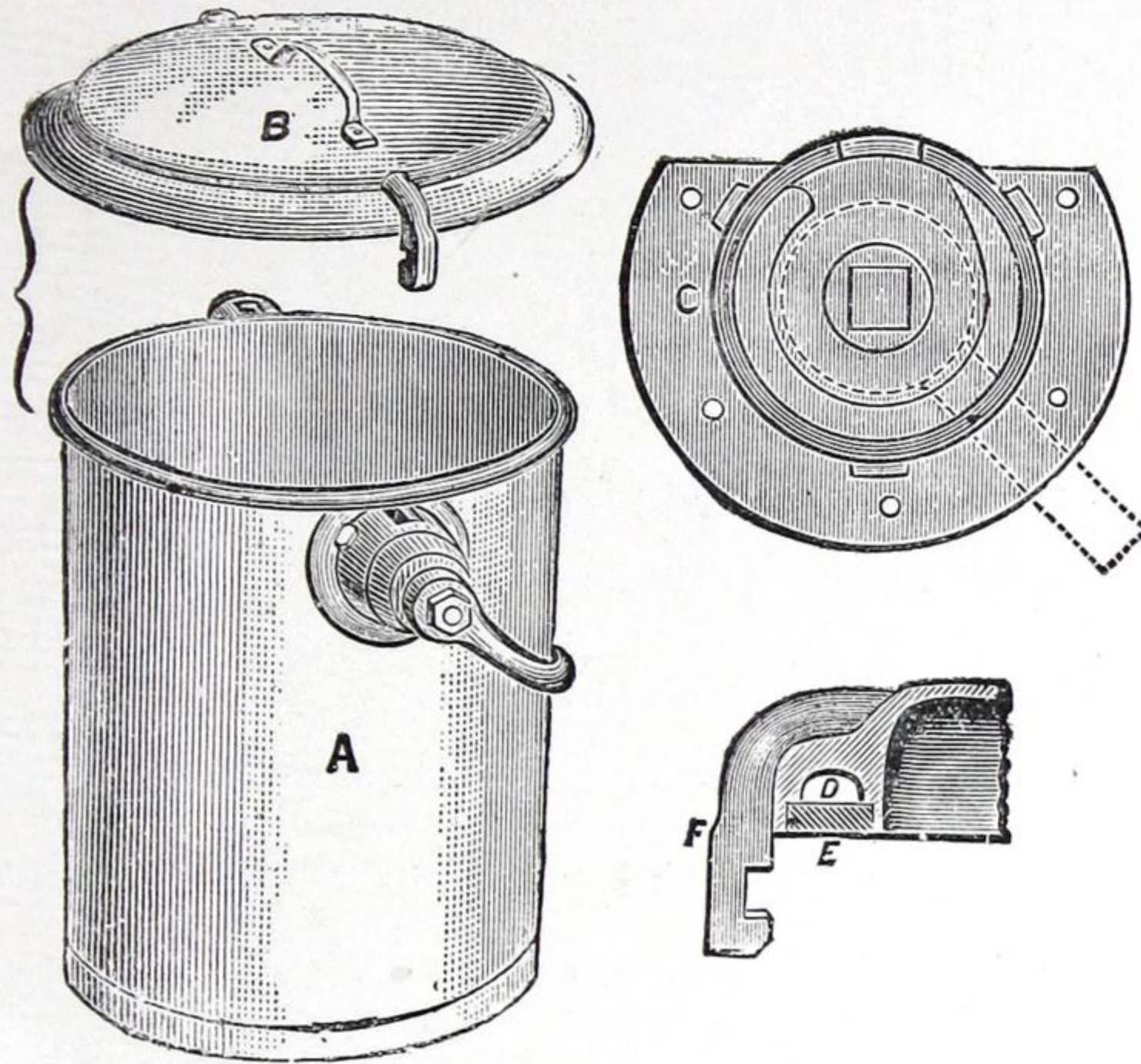


PLATE A-20

Illustrates our Air-Tight Odorless Soil Bucket.

This bucket is made of annealed cast iron, the cover and bucket are enameled on the inside, malleable iron cams and handles. It is neat and durable, cannot get out of order, as the working or mechanical construction is protected by a covering. This bucket is made air-tight by simply moving the bail or handle from one side of the vessel to the other; to reopen, you move bail back to opposite side. We call your attention to the construction of the bucket as shown by cut herewith which shows the mechanism and superiority over anything of the kind ever produced.

To those who have been using the make-shifts known as prison buckets in the past, this improvement will be appreciated and will recommend itself to the managers of all penal, charitable and benevolent institutions of the country.

## Sanitary Commode Pail

**T**HIS illustration shows our *Improved Sanitary Prison Cell Pail*. It is of the same size and shape as the latest improved closet seats. Cover is made to fit air-tight and will retain every particle of odor. Made of heavy galvanized iron, and neatly flowered and striped. Aluminum finish, Size 12 quarts. The seat is nicely rounding on top and is supported on the outside with braces riveted to sides of pail.

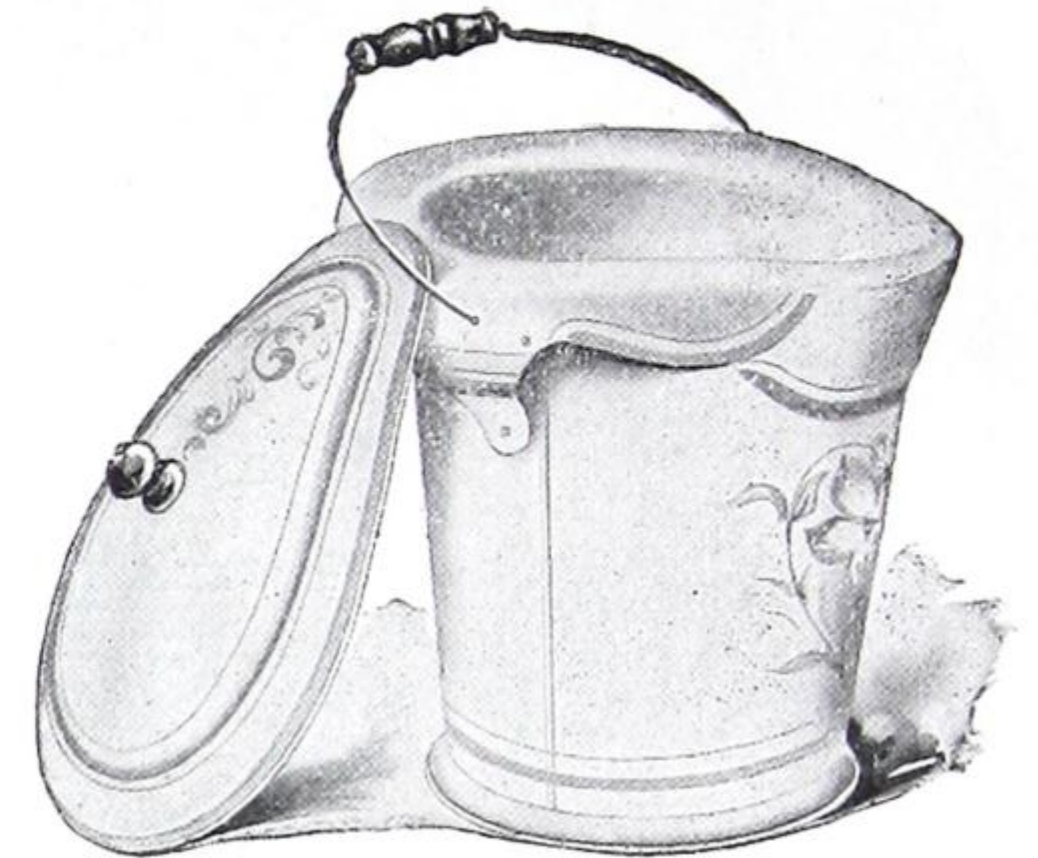
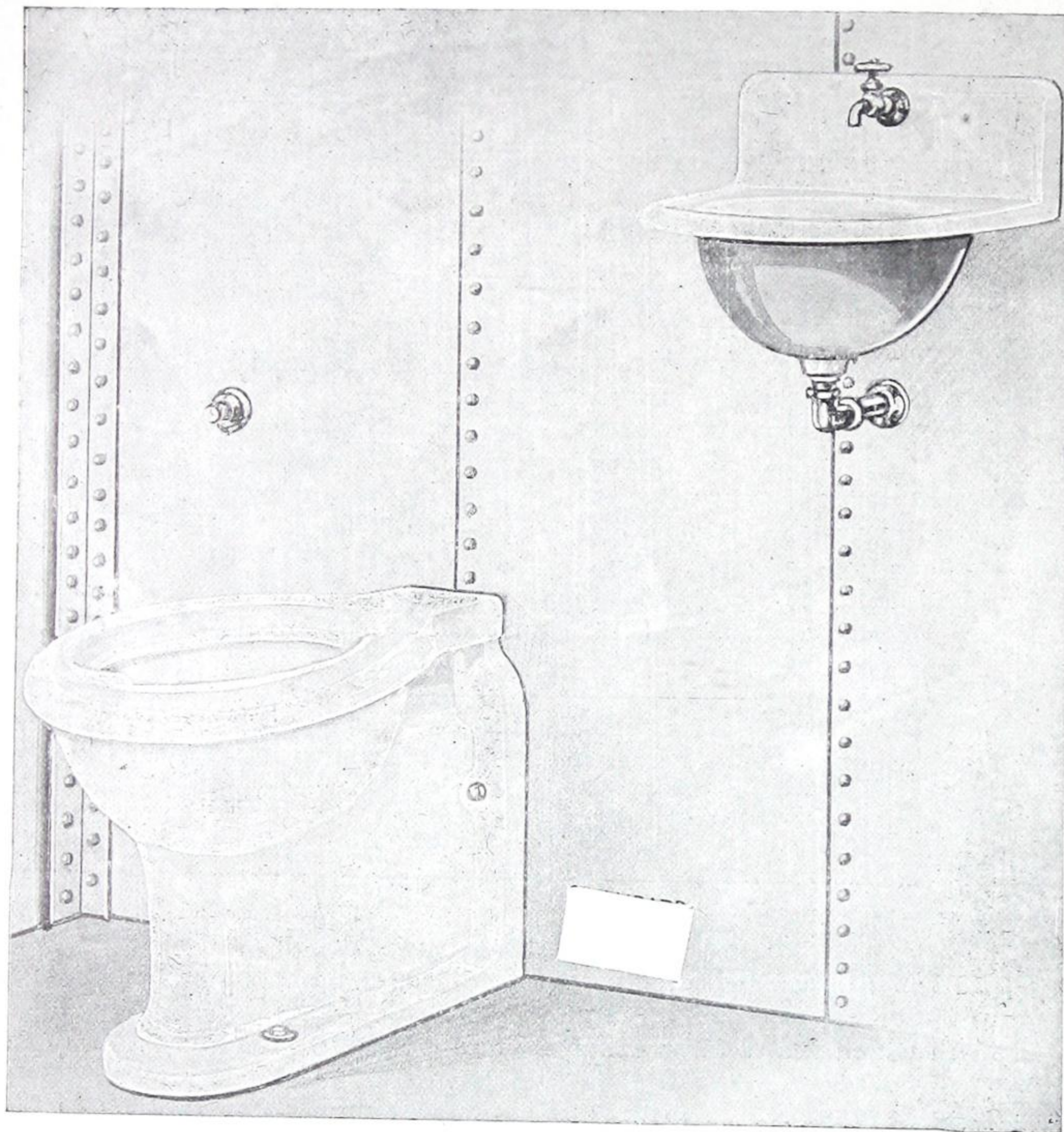


PLATE A-21

We equip all our Standard Lattice Steel Bar Cells with this style of Pail unless otherwise ordered.



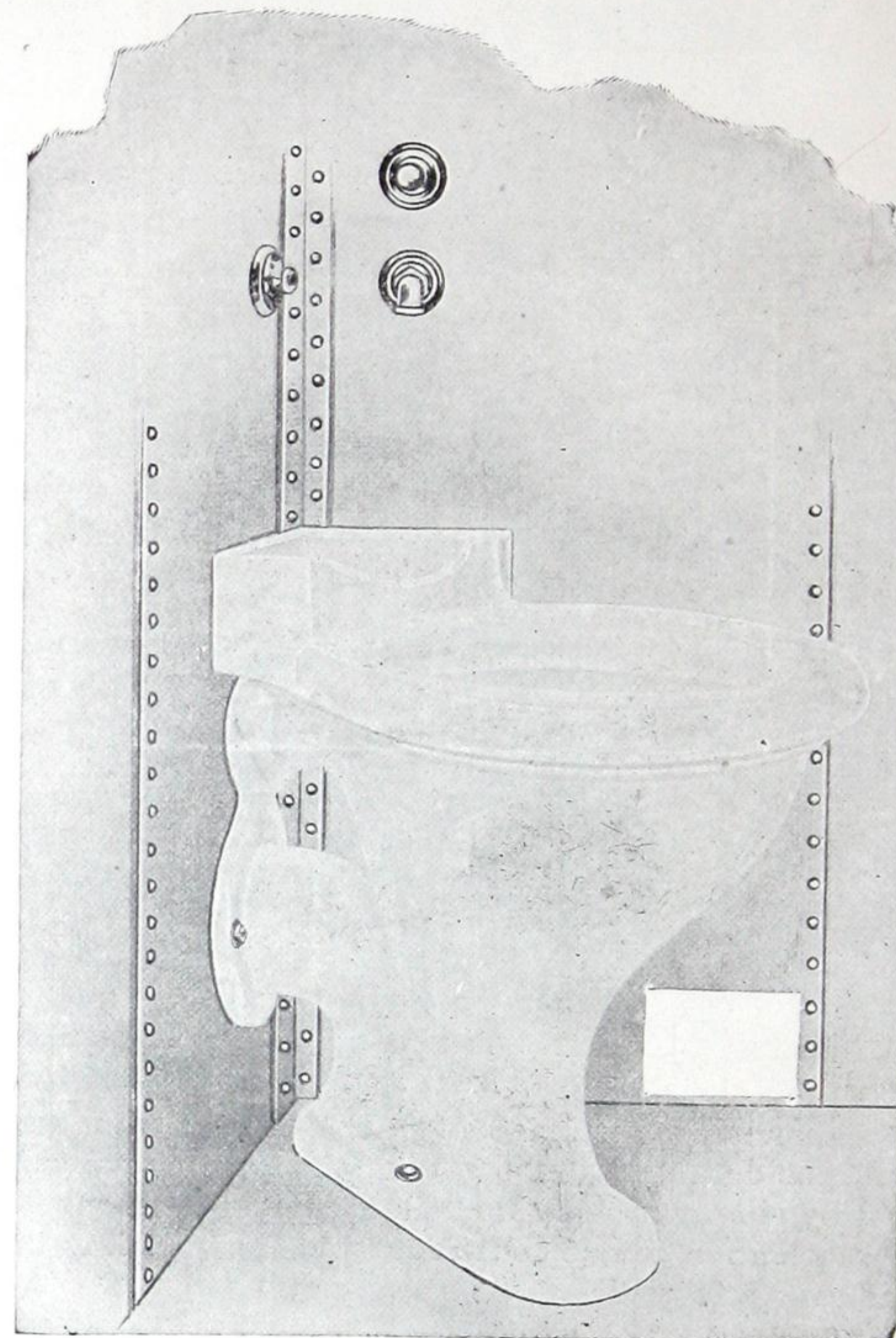
# PRISON CLOSETS AND LAVATORIES (For descriptive matter refer to page 28)



**PLATE F-5902**

Prison Combination. Approximate weight 375 lbs.

WHEN ORDERING OR SPECIFYING, GIVE CATALOGUE NAME AND NUMBER.



**PLATE F-5903**

Prison Combination for Corner. Approximate weight 325 lbs.



# PRISON CLOSETS AND LAVATORIES

(For Descriptive Matter refer to Page 28)

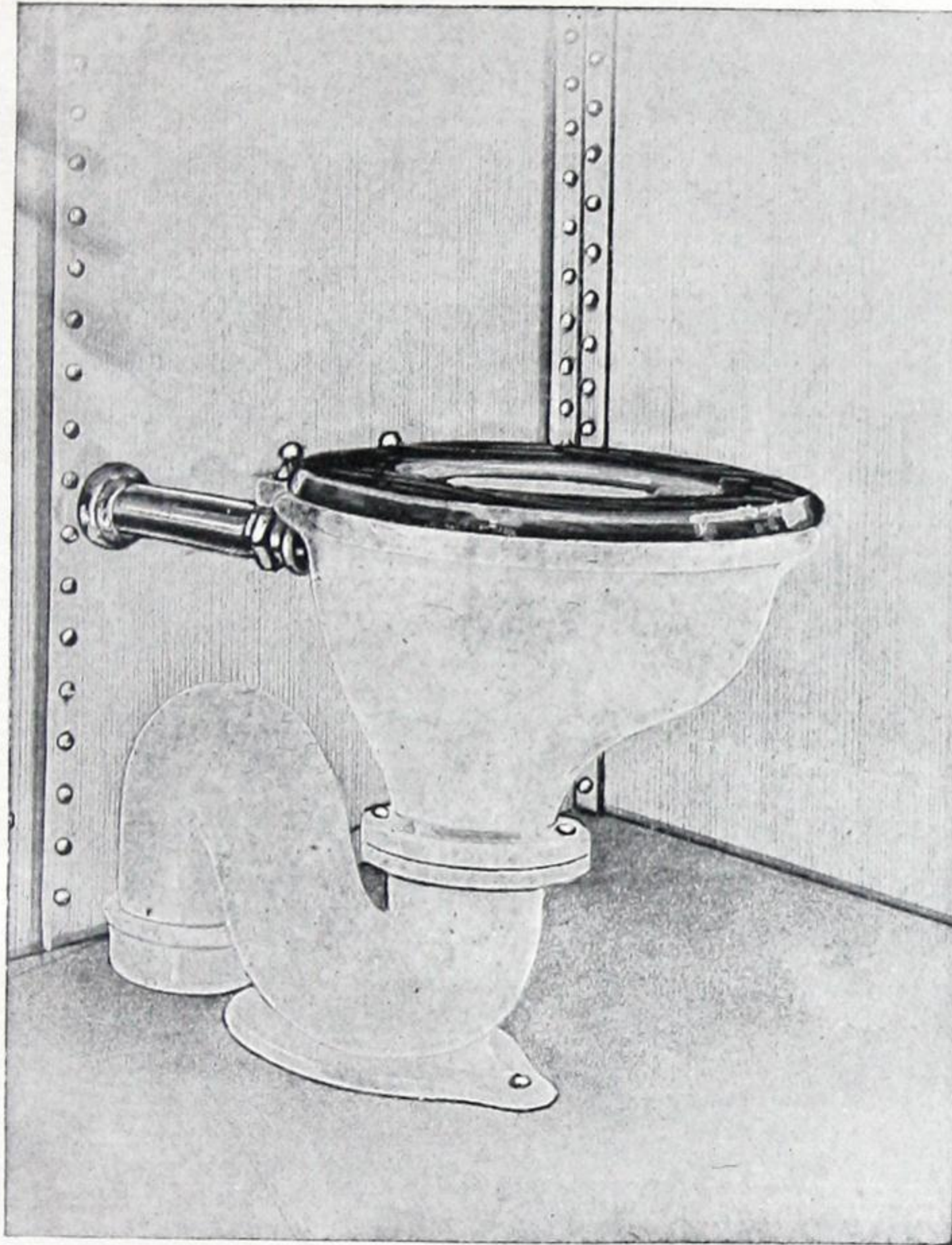


Plate F-5904 (Approximate weight 150 lbs.)



Plate F-5905 (Approximate weight 325 lbs.)

WHEN ORDERING OR SPECIFYING, GIVE CATALOGUE NAME AND NUMBER.



# Descriptive Matter of Prison Closet Combinations

*Illustrated on Foregoing Pages*

## PLATE F-5902-PRISON COMBINATION

VITREOUS ENAMELED PRISON COMBINATION—VITREOUS ENAMELED inside and out, Cast Iron Closet Bowl and Seat with rear outlet—Brass Thimble, Floor Flange, Rubber Gasket and Bolts—VITREOUS ENAMELED inside and out, Cast Iron High Tank complete with Fittings, 1½ inch Brass Flush Pipe with Elbow Slip Joint Connection to Closet Bowl, Push Button Tank Pull—VITREOUS ENAMELED Lavatory with N.P. self-closing Faucet and Waste Connection to Wall.

Vitreous Enameled Lavatory (See Plate F-5902) with Round Basin, Overflow and Back—ALL IN ONE PIECE, Concealed Wall Hangers, with Nickle-plated self-closing Faucets, and waste fitting to wall.

## PLATE F-5903-PRISON COMBINATION

VITREOUS ENAMELED Prison Combination—Vitreous Enameled inside and out Cast Iron Closet Bowl, Seat and Lavatory, for corner—Right Hand or Left Hand side outlet with Brass Thimble and Wall Flange, Rubber Gasket and Bolts. VITREOUS ENAMELED inside and out, Cast Iron High Tank—complete with fittings, 1½ inch Brass Flush Pipe with Elbow Slip Joint Connection to Closet Bowl, Push Button Tank Pull operating through Partition—self-closing Push Button Faucet.

## PLATE F-5904

VITREOUS ENAMELED inside only, cast iron short Flushing Rim Hopper and “S” Trap with Heavy Oak Seat with galvanized iron Reinforcement Ring and Rubber Bumpers. Nickle-plated heavy Iron Pipe Size Brass or Galvanized Iron Supply Connection to wall.

## PLATE F-5905

VITREOUS ENAMELED inside and out Cast Iron Closet Bowl and Seat, with rear outlet, Brass Thimble and Wall Flange, Rubber Gasket and Bolts, VITREOUS ENAMELED inside and out, Cast Iron High Tank complete with fittings, 1½ inch Brass Flush Pipe with Elbow Slip Joint Connection to Closet Bowl, Push Button Tank Pull operating through wall.



**WHEN ORDERING OR SPECIFYING, GIVE**

**CATALOGUE NAME AND NUMBER**



## PAIR SOLID GATES FOR PRISON YARD

Equipped with 3-point Locking Device.  
STANDARD SIZE 8 FT. WIDE BY 9 FT. HIGH.

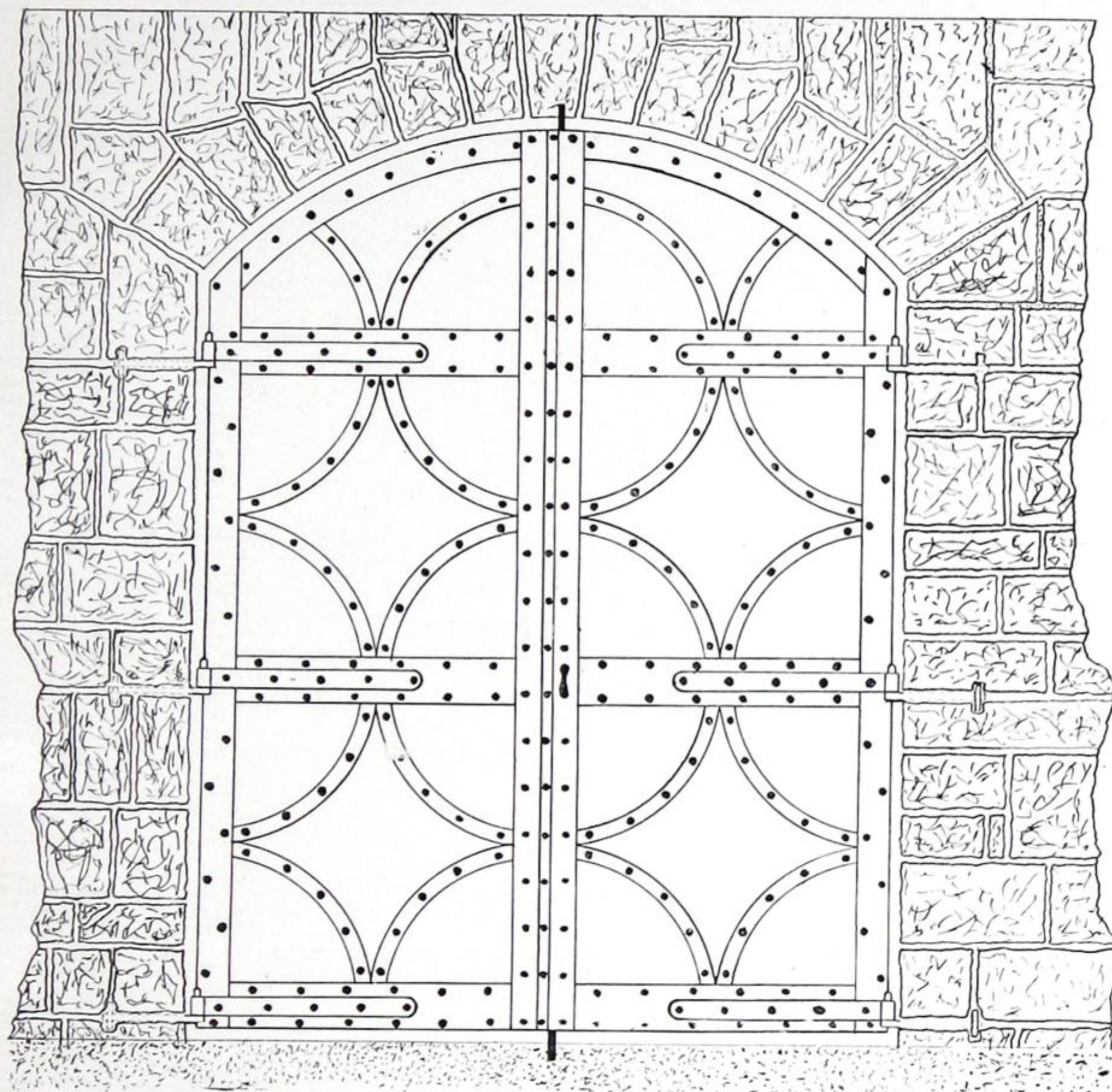


PLATE A-60

SEND DIAGRAM WITH MEASUREMENT OF YOUR REQUIREMENTS.

## PAIR WROUGHT IRON PRISON ENTRANCE GATES

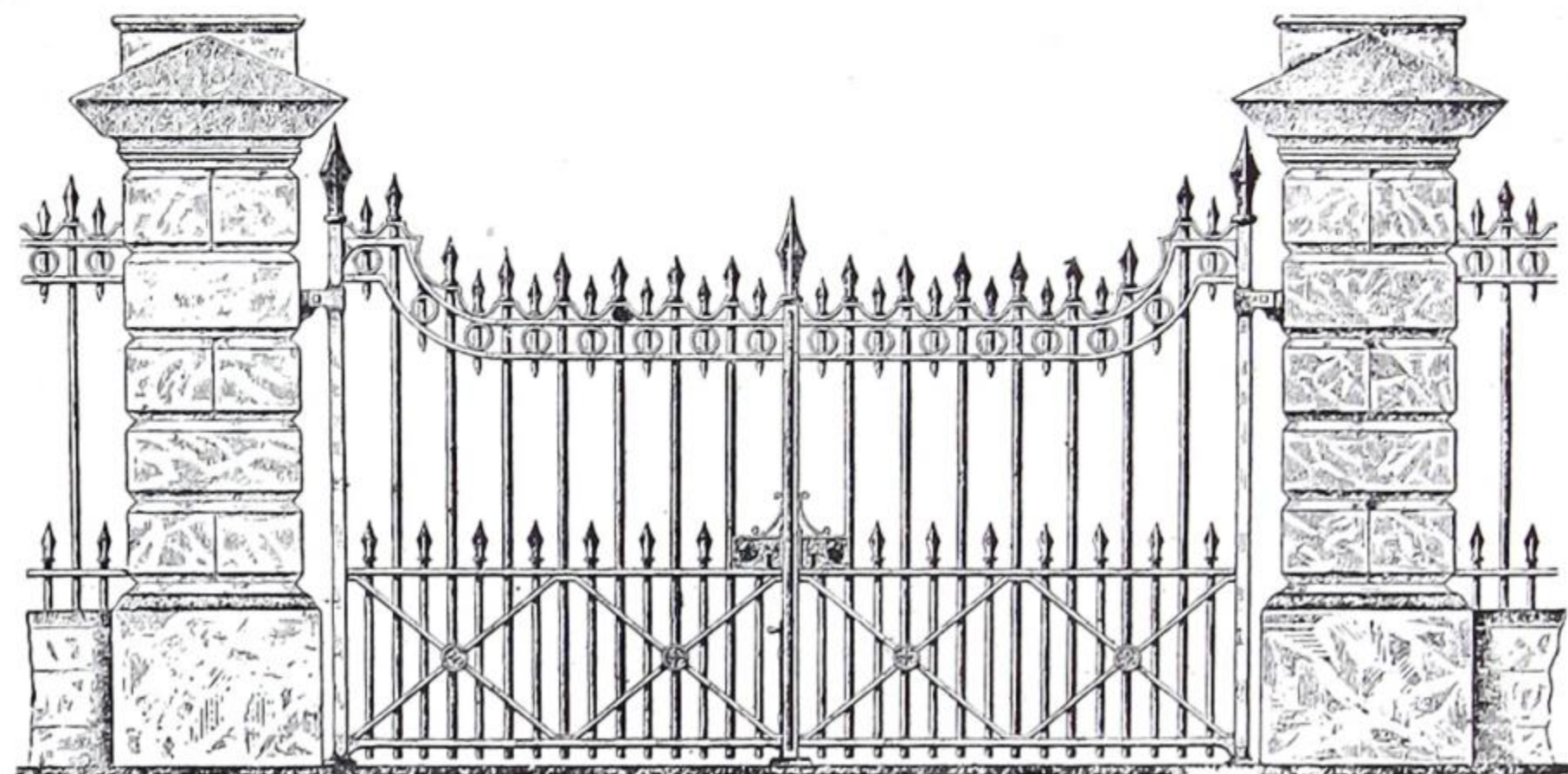


PLATE A-70

These Gates are very strong ; the long Vertical Bars are  $7/8$  inch diameter, and the Dog Bars  $3/4$  inch diameter, with Heads of Wrought Iron. The Gates are well finished throughout, and furnished with best Brass-warded Lock, Sham, and Mountings for Stone Piers.



===== WE CAN FURNISH =====

**Handcuffs, Police Nippers, Leg Irons,  
Policemen's Buttons and Batons**



===== WE ALSO MANUFACTURE =====

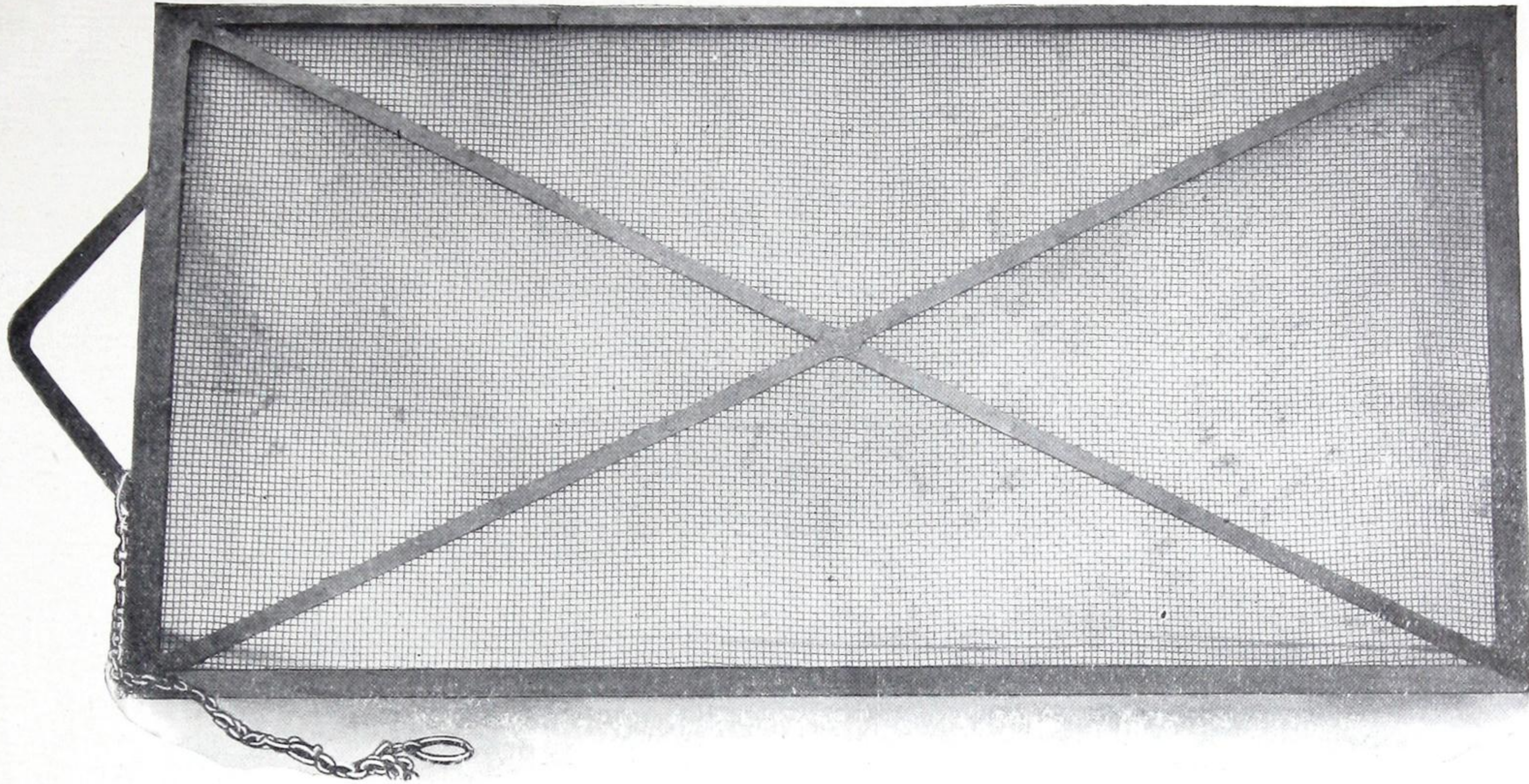
Double Crimped Wire Cloth,  
Filtration and Water Works Screens.  
Perforated Sheet Metal,  
Concrete Re-inforcement,  
Gravel and Stone Screening, Foundry Supplies,  
General Ornamental Wire and Iron Work,  
Bank and Office Railings,  
Laboratory Testing Sieves,

Heavy Wrought Iron Guards and Grilles,  
Metal Clothes Lockers,  
Tool Room Partitions and Machinery Guards,  
Wire Baskets for Factory Purposes,  
Wire Guards for All Purposes,  
Ornamental Lawn Fencing, Garden Bordering, Settees,  
Trellises and Arches for Climbing Plants,  
Plant and Tree Guards.

*"DESCRIBE THE NEED—WE CAN FURNISH"*



# WATERWORKS SCREEN



Photograph shows one of a number of copper screens, with wrought iron frames, 5 ft. 6 in. by 10 ft. 5 in., made in 1911 by us for the City of Toronto pumping plant.

Mr C. L. FELLOWES, head of Toronto's Waterworks Department, said on April 23rd, 1912 :—" The screens supplied to us by the Canada Wire and Iron Goods Co., of Hamilton, are absolutely satisfactory and were properly designed and manufactured in every particular."

**TWENTY YEARS' EXPERIENCE** in manufacturing wire cloth of steel, copper, brass, bronze and aluminum, has given us such knowledge of the business that we can carry out with the greatest accuracy and efficiency any difficult special work for manufacturers, contractors or engineers.

**OUR SCREENS** are always correctly designed and properly braced. The meshes are even, tightly interlocked and so welded in metal frames, when necessary, as to make it impossible for the screens to tear or "pull out." **WE MANUFACTURE SCREENS** of all kinds and sizes and for any purpose. Wire Screens of any metal and with any style of bracing—bars, heavier mesh, triangular or octagonal supports.